

*PI/co-PI/Senior Personnel Name: Steven Abramowitch

***Required fields**

Note: NSF has provided 15 project/proposal and 10 in-kind contribution entries for users to populate. Please leave any unused entries blank.

Project/Proposal Section:

Current and Pending Support includes all resources made available to an individual in support of and/or related to all of his/her research efforts, regardless of whether or not they have monetary value.^[1] Information must be provided about all current and pending support, including this project, for ongoing projects, and for any proposals currently under consideration from whatever source^[2], irrespective of whether such support is provided through the proposing organization or is provided directly to the individual. Concurrent submission of a proposal to other organizations will not prejudice its review by NSF, if disclosed.^[3]

Please enter your support entries so they are grouped together based on the "Status of Support" and are in the order of Current, Pending, Submission Planned, and Transfer of Support from top to bottom

[1] If the time commitment or dollar value is not readily ascertainable, reasonable estimates should be provided.

[2] For example, Federal, State, local, foreign, public or private foundations, non-profits, industrial or other commercial organizations or internal funds allocated toward specific projects.

[3] The Biological Sciences Directorate exception to this policy is delineated in PAPPG Chapter II.D.2.

Projects/Proposals

1. *Project/Proposal Title : LEAP-HI: Coordinated Advances in Reproductive Engineering for Health Research (CARE4HeR)

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*Source of Support: NSF

*Primary Place of Performance : Virginia Tech University

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*Total Award Amount (including Indirect Costs): \$ TBD

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1. 2021	1.0	4. 2024	1.0
2. 2022	1.0	5. 2025	1.0
3. 2023	1.0		

2. *Project/Proposal Title : AGEP-KAT: Adopting Evidence Based Strategies to Improve Academic Climate and the Success of Underrepresented Doctoral Students in Engineering

*Status of Support : Current Pending Submission Planned Transfer of Support

1434012

Proposal/Award Number (if available):

*Source of Support: NSF

*Primary Place of Performance : University of Pittsburgh

Project/Proposal Start Date (MM/YYYY) (if available) : 9/01/2015

Project/Proposal End Date (MM/YYYY) (if available) : 8/31/2020 (1-YR NO COST EXT)

*Total Award Amount (including Indirect Costs): \$ 1,584,793

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1. 2016	1.0	4. 2019	1.0
2. 2017	1.0	5. 2020	1.0
3. 2018	1.0		

Projects/Proposals

3. *Project/Proposal Title : **Overcoming Complications of Polypropylene Prolapse Meshes: Development of Novel Elastomeric Auxetic Devices**

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available): R01HD097187

*Source of Support: NIH

*Primary Place of Performance : UNIVERISTY OF PITTSBURGH

Project/Proposal Start Date (MM/YYYY) (if available) : 04/17/2019

Project/Proposal End Date (MM/YYYY) (if available) : 03/31/2022

*Total Award Amount (including Indirect Costs): \$ 2,318,165

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1. 2019	3.6	4. 2022	3.6
2. 2020	3.6	5. 2023	3.6
3. 2021	3.6		

4. *Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*Source of Support:

*Primary Place of Performance :

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*Total Award Amount (including Indirect Costs): \$

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

Projects/Proposals

5. *Project/Proposal Title : Mesh complications: The role of local mechanical stresses on tissue remodeling following mesh implantation

*Status of Support : Current Pending Submission Planned Transfer of Support

R01HD08338

Proposal/Award Number (if available):

*Source of Support: National Institutes of Health

*Primary Place of Performance : Magee-Womens Research Institute & Foundation

Project/Proposal Start Date (MM/YYYY) (if available) : 07/2021

Project/Proposal End Date (MM/YYYY) (if available) : 06/2026

*Total Award Amount (including Indirect Costs): \$ 3,612,804

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1. 2021	2.0	4. 2024	2.0
2. 2022	2.0	5. 2025	2.0
3. 2023	2.0		

6. *Project/Proposal Title : NSF Engineering Research Center for Integrated Mechanobiology for Women's Health (IMWEL) (this proposal)

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*Source of Support: National Science Foundation

*Primary Place of Performance : University of Pittsburgh

Project/Proposal Start Date (MM/YYYY) (if available) : 09/2022

Project/Proposal End Date (MM/YYYY) (if available) : 08/2027

*Total Award Amount (including Indirect Costs): \$ 2,850,000

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1. 2022	0.50	4. 2025	0.50
2. 2023	0.50	5. 2026	.50
3. 2024	0.50		

Projects/Proposals

1.*Project/Proposal Title : Integrative framework for identifying dysregulated mechanisms in the tumor-immune microenvironment

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available): 4R00CA230195

*Source of Support: NIH NCI

*Primary Place of Performance : Columbia University, New York

Project/Proposal Start Date (MM/YYYY) (if available): 05/2020

Project/Proposal End Date (MM/YYYY) (if available):

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*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1. 2021	9.00	5.
2. 2022	9.00	
3. 2023	9.00	

2.*Project/Proposal Title : Probabilistic modeling of intercellular interactions that drive ferroptosis susceptibility of therapy-resistant cancer cells

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available): DSI-IICD Seed Grant

*Source of Support: Columbia University

*Primary Place of Performance : Columbia University, New York

Project/Proposal Start Date (MM/YYYY) (if available): 01/2020

Project/Proposal End Date (MM/YYYY) (if available): 12/2021

*Total Award Amount (including Indirect Costs): \$ 200,000

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1. 2020	0.96	4.	
2. 2021	0.96	5.	
3.			

Projects/Proposals

3.*Project/Proposal Title : Identification of a targetable macrophage maturation defect in human technologies and machine learning tools

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available): P30CA013696

*Source of Support: NIH/NCI Cancer Center Support Grant (Internal IPPP)

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Project/Proposal Start Date (MM/YYYY) (if available): 07/1997

Project/Proposal End Date (MM/YYYY) (if available): 06/2025

*Total Award Amount (including Indirect Costs): \$ 5,302,111

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*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1. 2021	0.24	
2.		5.
3.		

4.*Project/Proposal Title : Dissecting drug resistance in serial uveal melanoma biopsies using integrated, multi modal single-cell profiling and novel machine learning tools.

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

* Columbia RISE internal grant (Internal award)

*Primary Place of Performance : Columbia University, New York

Project/Proposal Start Date (MM/YYYY) (if available): 07/2021

Project/Proposal End Date (MM/YYYY) (if available): 06/2022

*Total Award Amount (including Indirect Costs): \$ 80,000

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1. 2022	0.12	4.	
2.		5.	
3.			

Projects/Proposals

5.*Project/Proposal Title : Dissecting drug resistance in serial uveal melanoma biopsies using integrated, multi-modal single-cell profiling and novel machine learning tools.

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available): R21

*Source of Support: NIH

* Columbia University, New York

Project/Proposal Start Date (MM/YYYY) (if available): 07/2021

Project/Proposal End Date (MM/YYYY) (if available): 06/2023

*Total Award Amount (including Indirect Costs): \$ 445,500

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*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1. 2022	0.12	5.
2. 2023	0.12	
3.		

6.*Project/Proposal Title : The role of the CD58:CD2 axis in cancer immune evasion and resistance to immunotherapy

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available): R01

*Source of Support: NIH

*Primary Place of Performance : Columbia University, New York

Project/Proposal Start Date (MM/YYYY) (if available): 09/2021

Project/Proposal End Date (MM/YYYY) (if available): 08/2026

*Total Award Amount (including Indirect Costs): \$ 2,015,167

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

*Year (YYYY)	Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1. 2022	0.36	4. 2025	0.36
2. 2023	0.36	5. 2026	0.36
3. 2024	0.36		

Projects/Proposals

7.*Project/Proposal Title : Dissecting drug resistance in serial uveal melanoma biopsies using integrated, multi modal single-cell profiling and novel machine learning tools.

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

* Columbia Precision Medicine Pilot Award (Internal award)

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Project/Proposal Start Date (MM/YYYY) (if available): 03/2021

Project/Proposal End Date (MM/YYYY) (if available): 02/2022

*Total Award Amount (including Indirect Costs): \$ 100,000

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*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1. 2022	0.12	5.
2.		
3.		

8.*Project/Proposal Title : Mapping out cell fate hierarchies in human endoderm differentiation using an engineered platform of reproducible tissue patterning

*Status of Support : Current Pending Submission
Planned Transfer of Support Proposal/Award Number (if available):

RECODE

*Source of Support: NSF

*Primary Place of Performance : Columbia University, New York

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*Total Award Amount (including Indirect Costs): \$ 1,500,000

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1. 2022	1.00	4. 2025	1.00
2. 2023	1.00	5.	

Projects/Proposals

3. 2024	1.00
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Projects/Proposals

9. *Project/Proposal Title : Clonal dynamics and chemoresistance mechanisms of minimal residual disease in acute leukemia

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available): R01

*Source of Support: NIH

*Primary Place of Performance : Columbia University, New York

Project/Proposal Start Date (MM/YYYY) (if available): 09/2021

Project/Proposal End Date (MM/YYYY) (if available): 08/2026

*Total Award Amount (including Indirect Costs): \$ 3,698,687

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*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1. 2022	1.2	4. 2025	1.2
2. 2023	1.2	5. 2026	1.2
3. 2024	1.2		

10. *Project/Proposal Title : Machine learning for modeling tumor-immune interactions

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available): Research Grant

*Source of Support: American Cancer Society

*Primary Place of Performance : Columbia University, New York

Project/Proposal Start Date (MM/YYYY) (if available): 01/2022

Project/Proposal End Date (MM/YYYY) (if available): 12/2025

*Total Award Amount (including Indirect Costs): \$ 792000

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1. 2022	0.96	4. 2025	0.96
2. 2023	0.96	5.	
3. 2024	0.96		

Projects/Proposals

11. *Project/Proposal Title : (This Proposal) NSF Engineering Research Center for Integrated Mechanobiology for Women’s Health (IMWEL)

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*Source of Support: NSF

*Primary Place of Performance : Columbia University, New York

Project/Proposal Start Date (MM/YYYY) (if available): 09/2022

Project/Proposal End Date (MM/YYYY) (if available):

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*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1. 2022	0.50	4. 2025	0.50
2. 2023	0.50	5. 2026	0.50
3. 2024	0.50		

12. *Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

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*

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

Projects/Proposals

13. *Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

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Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

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*

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

14. *Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

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*

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

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*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

Projects/Proposals

15.*Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

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Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*

*

*Year (YYYY)	*Person Months (##.##)
1.	
2.	
3.	

Person Months (##.##)

5.

In Kind Contributions

*Required fields

In-Kind Contribution Section:

Current and Pending Support also includes in-kind contributions (such as office/laboratory space, equipment, supplies, employees, students). If the in-kind contributions are intended for use on the project being proposed to NSF, the information must be included as part of the Facilities, Equipment and Other Resources section of the proposal and need not be replicated in the individual's Current and Pending Support submission. In-kind contributions not intended for use on the project/proposal being proposed that have associated time obligations must be reported below. If the time commitment or dollar value is not readily ascertainable, reasonable estimates should be provided.

Please enter your support entries so they are grouped together based on the "Status of Support" and are in the order of Current to Pending from top to bottom

1.*Status of Support: Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.			
3.			

*Dollar Value of In-Kind Contribution: \$

In Kind Contributions

2.*Status of Support : Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

*Dollar Value of In-Kind Contribution:\$

3.*Status of Support : Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

*Dollar Value of In-Kind Contribution:\$

In Kind Contributions

4.*Status of Support : Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

*Dollar Value of In-Kind Contribution:\$

5.*Status of Support : Current Pending

*Source of Support :

*

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

*Dollar Value of In-Kind Contribution:\$

In Kind Contributions

6.*Status of Support : Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

*Dollar Value of In-Kind Contribution:\$

7.*Status of Support : Current Pending

*Source of Support :

*

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

*Dollar Value of In-Kind Contribution:\$

In Kind Contributions

8.*Status of Support : Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

*Dollar Value of In-Kind Contribution:\$

9.*Status of Support : Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

*Dollar Value of In-Kind Contribution:\$

In Kind Contributions

10.*Status of Support : Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

*Dollar Value of In-Kind Contribution:\$

*PI/co-PI/Senior Personnel Name: Bello, Natalie

***Required fields**

Note: NSF has provided 15 project/proposal and 10 in-kind contribution entries for users to populate. Please leave any unused entries blank.

Project/Proposal Section:

Current and Pending Support includes all resources made available to an individual in support of and/or related to all of his/her research efforts, regardless of whether or not they have monetary value.^[1] Information must be provided about all current and pending support, including this project, for ongoing projects, and for any proposals currently under consideration from whatever source^[2], irrespective of whether such support is provided through the proposing organization or is provided directly to the individual. Concurrent submission of a proposal to other organizations will not prejudice its review by NSF, if disclosed.^[3]

Please enter your support entries so they are grouped together based on the "Status of Support" and are in the order of Current, Pending, Submission Planned, and Transfer of Support from top to bottom

^[1] If the time commitment or dollar value is not readily ascertainable, reasonable estimates should be provided.

^[2] For example, Federal, State, local, foreign, public or private foundations, non-profits, industrial or other commercial organizations or internal funds allocated toward specific projects.

^[3] The Biological Sciences Directorate exception to this policy is delineated in PAPPG Chapter II.D.2.

Projects/Proposals

1.*Project/Proposal Title : Blood pressure measurement and hypertension in pregnanc

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (ifavailable): 5K23HL136853

*Source of Support: National Institutes of Health (NHLBI)

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Project/Proposal Start Date (MM/YYYY) (ifavailable): 04/2018

Project/Proposal End Date (MM/YYYY) (ifavailable):

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*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1. 2018	9.00	4. 2021	9.00
2. 2019	9.00	5. 2022	9.00
3. 2020	9.00		

2.*Project/Proposal Title : Cardiac Manifestations of Preeclampsia

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (ifavailable): 1R01HL153382

*Source of Support: National Institutes of Health (NHLBI)

*Primary Place of Performance : Columbia University

Project/Proposal Start Date (MM/YYYY) (if available): 07/2020

Project/Proposal End Date (MM/YYYY) (if available): 06/2024

*Total Award Amount (including Indirect Costs): \$ 306,088

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

*Year (YYYY)	Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1. 2020	2.40	4. 2023	2.40
2. 2021	2.40	5. 2024	2.40
3. 2022	2.40		

Projects/Proposals

3.*Project/Proposal Title : Arterial stiffness in mother/infant dyads: Life course approach to prevent cardiovascular disease

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

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Project/Proposal Start Date (MM/YYYY) (if available): 04/2021

Project/Proposal End Date (MM/YYYY) (if available): 03/2026

*Total Award Amount (including Indirect Costs): \$ 5,000

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*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1. 2021	0.58	4. 2024	0.58
2. 2022	0.58	5. 2025	0.58
3. 2023	0.58		

4.*Project/Proposal Title : (This Proposal) NSF Engineering Research Center for Integrated Mechanobiology for Women’s Health (IMWEL)

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

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*Primary Place of Performance : Columbia University

Project/Proposal Start Date (MM/YYYY) (if available): 09/2022

Project/Proposal End Date (MM/YYYY) (if available): 08/2027

*Total Award Amount (including Indirect Costs): \$ 26,000,000

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

*Year (YYYY)	Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1. 2022	0.50	4. 2025	0.50
2. 2023	0.50	5. 2026	0.50
3. 2024	0.50		

Projects/Proposals

5.*Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

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Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

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*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

6.*Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

Projects/Proposals

7.*Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

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*

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

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*

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

8.*Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

Projects/Proposals

9. *Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*

*

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

10. *Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

Projects/Proposals

11. *Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*

*

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

12. *Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

Projects/Proposals

13. *Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*

*

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

14. *Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

Projects/Proposals

15.*Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*

*

*Year (YYYY)	*Person Months (##.##)
1.	
2.	
3.	

Person Months (##.##)

5.

In Kind Contributions

*Required fields

In-Kind Contribution Section:

Current and Pending Support also includes in-kind contributions (such as office/laboratory space, equipment, supplies, employees, students). If the in-kind contributions are intended for use on the project being proposed to NSF, the information must be included as part of the Facilities, Equipment and Other Resources section of the proposal and need not be replicated in the individual's Current and Pending Support submission. In-kind contributions not intended for use on the project/proposal being proposed that have associated time obligations must be reported below. If the time commitment or dollar value is not readily ascertainable, reasonable estimates should be provided.

Please enter your support entries so they are grouped together based on the "Status of Support" and are in the order of Current to Pending from top to bottom

1.*Status of Support: Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.			
3.			

*Dollar Value of In-Kind Contribution: \$

In Kind Contributions

2.*Status of Support : Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

*Dollar Value of In-Kind Contribution:\$

3.*Status of Support : Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

*Dollar Value of In-Kind Contribution:\$

In Kind Contributions

4.*Status of Support : Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

*Dollar Value of In-Kind Contribution:\$

5.*Status of Support : Current Pending

*Source of Support :

*

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

*Dollar Value of In-Kind Contribution:\$

In Kind Contributions

6. *Status of Support : Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

*Dollar Value of In-Kind Contribution:\$

7. *Status of Support : Current Pending

*Source of Support :

*

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

*Dollar Value of In-Kind Contribution:\$

In Kind Contributions

8.*Status of Support : Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

*Dollar Value of In-Kind Contribution:\$

9.*Status of Support : Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

*Dollar Value of In-Kind Contribution:\$

In Kind Contributions

10.*Status of Support : Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

*Dollar Value of In-Kind Contribution:\$

*PI/co-PI/Senior Personnel Name: Christine P Hendon

***Required fields**

Note: NSF has provided 15 project/proposal and 10 in-kind contribution entries for users to populate. Please leave any unused entries blank.

Project/Proposal Section:

Current and Pending Support includes all resources made available to an individual in support of and/or related to all of his/her research efforts, regardless of whether or not they have monetary value.^[1] Information must be provided about all current and pending support, including this project, for ongoing projects, and for any proposals currently under consideration from whatever source^[2], irrespective of whether such support is provided through the proposing organization or is provided directly to the individual. Concurrent submission of a proposal to other organizations will not prejudice its review by NSF, if disclosed.^[3]

Please enter your support entries so they are grouped together based on the "Status of Support" and are in the order of Current, Pending, Submission Planned, and Transfer of Support from top to bottom

^[1] If the time commitment or dollar value is not readily ascertainable, reasonable estimates should be provided.

^[2] For example, Federal, State, local, foreign, public or private foundations, non-profits, industrial or other commercial organizations or internal funds allocated toward specific projects.

^[3] The Biological Sciences Directorate exception to this policy is delineated in PAPPG Chapter II.D.2.

Projects/Proposals

1.*Project/Proposal Title : High Resolution Imaging of the Myocardium

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available): 4DP2HL127776-02

*Source of Support: NIH

*

Project/Proposal Start Date (MM/YYYY) (if available): 07/2019

Project/Proposal End Date (MM/YYYY) (if available):

*

*

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1. 2019	1.50	5.
2. 2020	1.50	
3. 2021	1.00	

2.*Project/Proposal Title : A Computational Framework for the Clinical Evaluation of the Soft Tissue Mechanics in Pregnancy

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available): 1R01HD091153-01

*Source of Support: NIH

*Primary Place of Performance : Columbia University

Project/Proposal Start Date (MM/YYYY) (if available): 09/2017

Project/Proposal End Date (MM/YYYY) (if available): 08/2022

*Total Award Amount (including Indirect Costs): \$ 1,880,241

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

*	Year (YYYY)	Person Months (##.##)
1. 2017	0.50	4. 2020
2. 2018	0.50	
3. 2019	0.50	5. 2021
		0.50

Projects/Proposals

3.*Project/Proposal Title : Optically guided catheter ablation of atrial fibrillation

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available): 1R01HL149369-01

*Source of Support: NIH

* Columbia University and Case Western Reserve University

Project/Proposal Start Date (MM/YYYY) (if available): 08/2019

Project/Proposal End Date (MM/YYYY) (if available): 07/2023

*Total Award Amount (including Indirect Costs): \$ 2,841,635

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1. 2019	1.00	4. 2022	1.50
2. 2020	1.50	5. 2023	1.50
3. 2021	1.50		

4.*Project/Proposal Title : Auditory Mechanics and Cochlear Amplification

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*Primary Place of Performance : Columbia University

Project/Proposal Start Date (MM/YYYY) (if available): 03/2021

Project/Proposal End Date (MM/YYYY) (if available): 02/2026

*Total Award Amount (including Indirect Costs): \$ 1,880,241

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

*Year (YYYY)	Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1. 2021	0.50	4. 2024	0.50
2. 2022	0.50	5. 2025	0.50
3. 2023	0.50		

Projects/Proposals

5.*Project/Proposal Title : Image Guided Sample Selection in Breast Cancer Diagnostics using Ultra-High Resolution Optical Coherence

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available): 1R01CA260741-01

*Source of Support: NIH

*

Project/Proposal Start Date (MM/YYYY) (if available): 12/2021

Project/Proposal End Date (MM/YYYY) (if available): 11/2026

*Total Award Amount (including Indirect Costs): \$ 3,999,670

*

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1. 2022	1.92	4. 2025	1.92
2. 2023	1.92	5. 2026	1.92
3. 2024	1.92		

6.*Project/Proposal Title : Evaluating the role of photobiomodulation in human cervical remodeling in pregnancy

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available): 1 R21 HD106061-01

*Source of Support: NIH

*Primary Place of Performance : Columbia University

Project/Proposal Start Date (MM/YYYY) (if available): 07/2021

Project/Proposal End Date (MM/YYYY) (if available): 06/2023

*Total Award Amount (including Indirect Costs): \$ 445,500

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1. 2022	0.63	4.	
2. 2023	0.63	5.	
3.			

Projects/Proposals

7.*Project/Proposal Title : (This Proposal) NSF Engineering Research Center for Integrated Mechanobiology for Women’s Health (IMWEL)

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available): 09/2022

Project/Proposal End Date (MM/YYYY) (if available): 08/2027

*Total Award Amount (including Indirect Costs): \$ 26,000,000

*

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1. 2022	0.50	4. 2025	0.50
2. 2023	0.50	5. 2026	0.50
3. 2024	0.50		

8.*Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

Projects/Proposals

9. *Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*

*

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

10. *Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

Projects/Proposals

11. *Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*

*

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

12. *Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

Projects/Proposals

13. *Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*

*

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

14. *Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

Projects/Proposals

15.*Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*

*

*Year (YYYY)	*Person Months (##.##)
1.	
2.	
3.	

Person Months (##.##)

5.

In Kind Contributions

*Required fields

In-Kind Contribution Section:

Current and Pending Support also includes in-kind contributions (such as office/laboratory space, equipment, supplies, employees, students). If the in-kind contributions are intended for use on the project being proposed to NSF, the information must be included as part of the Facilities, Equipment and Other Resources section of the proposal and need not be replicated in the individual's Current and Pending Support submission. In-kind contributions not intended for use on the project/proposal being proposed that have associated time obligations must be reported below. If the time commitment or dollar value is not readily ascertainable, reasonable estimates should be provided.

Please enter your support entries so they are grouped together based on the "Status of Support" and are in the order of Current to Pending from top to bottom

1.*Status of Support: Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.			
3.			

*Dollar Value of In-Kind Contribution: \$

In Kind Contributions

2.*Status of Support : Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

*Dollar Value of In-Kind Contribution:\$

3.*Status of Support : Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

*Dollar Value of In-Kind Contribution:\$

In Kind Contributions

4.*Status of Support : Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

*Dollar Value of In-Kind Contribution:\$

5.*Status of Support : Current Pending

*Source of Support :

*

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

*Dollar Value of In-Kind Contribution:\$

In Kind Contributions

6. *Status of Support : Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

*Dollar Value of In-Kind Contribution:\$

7. *Status of Support : Current Pending

*Source of Support :

*

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

*Dollar Value of In-Kind Contribution:\$

In Kind Contributions

8.*Status of Support : Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

*Dollar Value of In-Kind Contribution:\$

9.*Status of Support : Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

*Dollar Value of In-Kind Contribution:\$

In Kind Contributions

10.*Status of Support : Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

*Dollar Value of In-Kind Contribution:\$

*PI/co-PI/Senior Personnel Name: Itshack Pe'er

***Required fields**

Note: NSF has provided 15 project/proposal and 10 in-kind contribution entries for users to populate. Please leave any unused entries blank.

Project/Proposal Section:

Current and Pending Support includes all resources made available to an individual in support of and/or related to all of his/her research efforts, regardless of whether or not they have monetary value.^[1] Information must be provided about all current and pending support, including this project, for ongoing projects, and for any proposals currently under consideration from whatever source^[2], irrespective of whether such support is provided through the proposing organization or is provided directly to the individual. Concurrent submission of a proposal to other organizations will not prejudice its review by NSF, if disclosed.^[3]

Please enter your support entries so they are grouped together based on the "Status of Support" and are in the order of Current, Pending, Submission Planned, and Transfer of Support from top to bottom

^[1] If the time commitment or dollar value is not readily ascertainable, reasonable estimates should be provided.

^[2] For example, Federal, State, local, foreign, public or private foundations, non-profits, industrial or other commercial organizations or internal funds allocated toward specific projects.

^[3] The Biological Sciences Directorate exception to this policy is delineated in PAPPG Chapter II.D.2.

Projects/Proposals

1.*Project/Proposal Title : Centers for Cancer Systems Therapeutics (CaST)

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (ifavailable): U54CA209997

*Source of Support: NIH/National Cancer Institute

*

Project/Proposal Start Date (MM/YYYY) (ifavailable): 08/2016

Project/Proposal End Date (MM/YYYY) (ifavailable):

*

*

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1. 2021	1.00	5.
2.		
3.		

2.*Project/Proposal Title : Transition to Metastatic State: Lung Cancer, Pancreatic Cancer and Brain Metastasis - Functional Unit 3

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available): U2CCA233284

*Source of Support: NIH

*Primary Place of Performance : Columbia University, New York, NY

Project/Proposal Start Date (MM/YYYY) (ifavailable): 09/2018

Project/Proposal End Date (MM/YYYY) (ifavailable): 08/2023

*Total Award Amount (including Indirect Costs): \$ 519,554

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1. 2021	0.50	4.	
2. 2022	0.50	5.	

Projects/Proposals

3. 2023	0.50
---------	------

Projects/Proposals

3.*Project/Proposal Title : Variational Inference to Reveal Genetic Heterogeneity across Neuropsychiatric Traits

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available): 07/2019

Project/Proposal End Date (MM/YYYY) (if available):

*

*

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1. 2021	0.10	
2.		5.
3.		

4.*Project/Proposal Title : MIM: Inferring causality in complex microbial communities under perturbation

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*Primary Place of Performance : Columbia University, New York, NY

Project/Proposal Start Date (MM/YYYY) (if available): 09/2021

Project/Proposal End Date (MM/YYYY) (if available): 08/2026

*Total Award Amount (including Indirect Costs): \$ 3,000,000

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1. 2022	1.00	4. 2025	1.00
2. 2023	1.00	5. 2026	1.00
3. 2024	1.00		

Projects/Proposals

5.*Project/Proposal Title : Collaborative Research: SCH: Identifying brain degeneration and cognitive changes via advances in integrative imaging and biomedical data analysis

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (ifavailable) : 10/2021

Project/Proposal End Date (MM/YYYY) (ifavailable) :

*

*

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1. 2022	0.60	4. 2025	0.60
2. 2023	0.60	5.	
3. 2024	0.60		

6.*Project/Proposal Title : (This Proposal) NSF Engineering Research Center for Integrated Mechanobiology for Women’s Health (IMWEL)

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*Primary Place of Performance : Columbia University

Project/Proposal Start Date (MM/YYYY) (if available) : 09/2022

Project/Proposal End Date (MM/YYYY) (if available) : 08/2027

*Total Award Amount (including Indirect Costs): \$ 26,000,000

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1. 2022	0.50	4. 2025	0.50
2. 2023	0.50	5. 2026	0.50
3. 2024	0.50		

Projects/Proposals

7.*Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*

*

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

8.*Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

Projects/Proposals

9. *Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*

*

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

10. *Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

Projects/Proposals

11. *Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*

*

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

12. *Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

Projects/Proposals

13. *Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*

*

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

14. *Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

Projects/Proposals

15.*Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*

*

*Year (YYYY)	*Person Months (##.##)
1.	
2.	
3.	

Person Months (##.##)

5.

In Kind Contributions

*Required fields

In-Kind Contribution Section:

Current and Pending Support also includes in-kind contributions (such as office/laboratory space, equipment, supplies, employees, students). If the in-kind contributions are intended for use on the project being proposed to NSF, the information must be included as part of the Facilities, Equipment and Other Resources section of the proposal and need not be replicated in the individual's Current and Pending Support submission. In-kind contributions not intended for use on the project/proposal being proposed that have associated time obligations must be reported below. If the time commitment or dollar value is not readily ascertainable, reasonable estimates should be provided.

Please enter your support entries so they are grouped together based on the "Status of Support" and are in the order of Current to Pending from top to bottom

1.*Status of Support: Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.			
3.			

*Dollar Value of In-Kind Contribution: \$

In Kind Contributions

2.*Status of Support : Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

*Dollar Value of In-Kind Contribution:\$

3.*Status of Support : Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

*Dollar Value of In-Kind Contribution:\$

In Kind Contributions

4.*Status of Support : Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

*Dollar Value of In-Kind Contribution:\$

5.*Status of Support : Current Pending

*Source of Support :

*

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

*Dollar Value of In-Kind Contribution:\$

In Kind Contributions

6. *Status of Support : Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

*Dollar Value of In-Kind Contribution:\$

7. *Status of Support : Current Pending

*Source of Support :

*

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

*Dollar Value of In-Kind Contribution:\$

In Kind Contributions

8.*Status of Support : Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

*Dollar Value of In-Kind Contribution:\$

9.*Status of Support : Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

*Dollar Value of In-Kind Contribution:\$

In Kind Contributions

10. *Status of Support : Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

*Dollar Value of In-Kind Contribution:\$

*PI/co-PI/Senior Personnel Name: Valerie Purdie-Greenaway, Ph.D.

***Required fields**

Note: NSF has provided 15 project/proposal and 10 in-kind contribution entries for users to populate. Please leave any unused entries blank.

Project/Proposal Section:

Current and Pending Support includes all resources made available to an individual in support of and/or related to all of his/her research efforts, regardless of whether or not they have monetary value.^[1] Information must be provided about all current and pending support, including this project, for ongoing projects, and for any proposals currently under consideration from whatever source^[2], irrespective of whether such support is provided through the proposing organization or is provided directly to the individual. Concurrent submission of a proposal to other organizations will not prejudice its review by NSF, if disclosed.^[3]

Please enter your support entries so they are grouped together based on the "Status of Support" and are in the order of Current, Pending, Submission Planned, and Transfer of Support from top to bottom

^[1] If the time commitment or dollar value is not readily ascertainable, reasonable estimates should be provided.

^[2] For example, Federal, State, local, foreign, public or private foundations, non-profits, industrial or other commercial organizations or internal funds allocated toward specific projects.

^[3] The Biological Sciences Directorate exception to this policy is delineated in PAPPG Chapter II.D.2.

Projects/Proposals

1.*Project/Proposal Title : Reducing Attrition in STEM Doctoral Education: A Longitudinal Investigation using Momentary Assessment and Social Psychological Intervention

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (ifavailable): HDR-1661214

*Source of Support: National Science Foundation, via Penn State University

*

Project/Proposal Start Date (MM/YYYY) (ifavailable): 05/2017

Project/Proposal End Date (MM/YYYY) (ifavailable):

*

*

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1. 2021	0.50	5.
2. 2022	0.50	
3.		

2.*Project/Proposal Title : DeMISTifying Muslim Youth: A Multi-Method Investigation of Character Values in the Context of the Muslim InterScholastic Tournament

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (ifavailable): BAYLOR32270245-06-CU

*Source of Support: Baylor University / John Templeton Foundation

*Primary Place of Performance : Columbia University, New York, NY

Project/Proposal Start Date (MM/YYYY) (if available): 10/2019

Project/Proposal End Date (MM/YYYY) (if available): 09/2021

*Total Award Amount (including Indirect Costs): \$ 50,000

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1. 2021	0.50	4.	
2.		5.	
3.			

Projects/Proposals

3.*Project/Proposal Title : HDR Institute: The Learner Data Institute - Harnessing The Data Revolution To Make The Learning Ecosystem More Effective, Engaging, and Equitable

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (ifavailable) : 10/2021

Project/Proposal End Date (MM/YYYY) (ifavailable) :

*

*

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1. 2022	1.00	4. 2025	1.00
2. 2023	1.00	5. 2026	1.00
3. 2024	1.00		

4.*Project/Proposal Title : (This Proposal) NSF Engineering Research Center for Integrated Mechanobiology for Women’s Health (IMWEL)

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*Primary Place of Performance : Columbia University

Project/Proposal Start Date (MM/YYYY) (if available) : 09/2022

Project/Proposal End Date (MM/YYYY) (if available) : 08/2027

*Total Award Amount (including Indirect Costs): \$ 26,000,000

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1. 2022	0.50	4. 2025	0.50
2. 2023	0.50	5. 2026	0.50
3. 2024	0.50		

Projects/Proposals

5.*Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*

*

*Year (YYYY)	*Person Months (##.##)
1.	
2.	
3.	

Person Months (##.##)

5.

6.*Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

Projects/Proposals

7.*Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*

*

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

8.*Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

Projects/Proposals

9. *Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*

*

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

10. *Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

Projects/Proposals

11. *Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*

*

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

12. *Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

Projects/Proposals

13. *Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*

*

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

14. *Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

Projects/Proposals

15.*Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*

*

*Year (YYYY)	*Person Months (##.##)
1.	
2.	
3.	

Person Months (##.##)

5.

In Kind Contributions

*Required fields

In-Kind Contribution Section:

Current and Pending Support also includes in-kind contributions (such as office/laboratory space, equipment, supplies, employees, students). If the in-kind contributions are intended for use on the project being proposed to NSF, the information must be included as part of the Facilities, Equipment and Other Resources section of the proposal and need not be replicated in the individual's Current and Pending Support submission. In-kind contributions not intended for use on the project/proposal being proposed that have associated time obligations must be reported below. If the time commitment or dollar value is not readily ascertainable, reasonable estimates should be provided.

Please enter your support entries so they are grouped together based on the "Status of Support" and are in the order of Current to Pending from top to bottom

1.*Status of Support: Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.			
3.			

*Dollar Value of In-Kind Contribution: \$

In Kind Contributions

2.*Status of Support : Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

*Dollar Value of In-Kind Contribution:\$

3.*Status of Support : Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

*Dollar Value of In-Kind Contribution:\$

In Kind Contributions

4.*Status of Support : Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

*Dollar Value of In-Kind Contribution:\$

5.*Status of Support : Current Pending

*Source of Support :

*

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

*Dollar Value of In-Kind Contribution:\$

In Kind Contributions

6.*Status of Support : Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

*Dollar Value of In-Kind Contribution:\$

7.*Status of Support : Current Pending

*Source of Support :

*

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

*Dollar Value of In-Kind Contribution:\$

In Kind Contributions

8.*Status of Support : Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

*Dollar Value of In-Kind Contribution:\$

9.*Status of Support : Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

*Dollar Value of In-Kind Contribution:\$

In Kind Contributions

10.*Status of Support : Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

*Dollar Value of In-Kind Contribution:\$

*PI/co-PI/Senior Personnel Name: Gordana Vunjak-Novakovic

***Required fields**

Note: NSF has provided 15 project/proposal and 10 in-kind contribution entries for users to populate. Please leave any unused entries blank.

Project/Proposal Section:

Current and Pending Support includes all resources made available to an individual in support of and/or related to all of his/her research efforts, regardless of whether or not they have monetary value.^[1] Information must be provided about all current and pending support, including this project, for ongoing projects, and for any proposals currently under consideration from whatever source^[2], irrespective of whether such support is provided through the proposing organization or is provided directly to the individual. Concurrent submission of a proposal to other organizations will not prejudice its review by NSF, if disclosed.^[3]

Please enter your support entries so they are grouped together based on the "Status of Support" and are in the order of Current, Pending, Submission Planned, and Transfer of Support from top to bottom

^[1] If the time commitment or dollar value is not readily ascertainable, reasonable estimates should be provided.

^[2] For example, Federal, State, local, foreign, public or private foundations, non-profits, industrial or other commercial organizations or internal funds allocated toward specific projects.

^[3] The Biological Sciences Directorate exception to this policy is delineated in PAPPG Chapter II.D.2.

Projects/Proposals

1.*Project/Proposal Title : Tissue Engineering Resource Center

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (ifavailable) : 08/2019

Project/Proposal End Date (MM/YYYY) (ifavailable) :

*

*

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1. 2019	3.00	4. 2022	3.00
2. 2020	3.00	5. 2023	3.00
3. 2021	3.00		

2.*Project/Proposal Title : Multi-tissue platform for modeling systemic pathologies

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*Source of Support: National Institutes of Health (DHHS)

*Primary Place of Performance : Columbia University

Project/Proposal Start Date (MM/YYYY) (ifavailable) : 07/2019

Project/Proposal End Date (MM/YYYY) (ifavailable) : 06/2022

*Total Award Amount (including Indirect Costs): \$ 953,980

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1. 2019	1.00	4.	
2. 2020	1.00	5.	
3. 2021	1.00		

Projects/Proposals

3.*Project/Proposal Title : Engineering vascularized cardiac muscle

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available): 01/2013

Project/Proposal End Date (MM/YYYY) (if available): 12/2023

*Total Award Amount (including Indirect Costs): \$ 813,948

*

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1. 2019	0.60	4. 2022	0.60
2. 2020	0.60	5. 2023	0.60
3. 2021	0.60		

4.*Project/Proposal Title : Bioengineering a Chimeric Human Lung

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

* National Institutes of Health (NHLBI)

*Primary Place of Performance : Columbia University

Project/Proposal Start Date (MM/YYYY) (if available): 08/2013

Project/Proposal End Date (MM/YYYY) (if available): 06/2023

*Total Award Amount (including Indirect Costs): \$ 842,444

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

*Year (YYYY)	Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1. 2019	0.60	4. 2022	0.60
2. 2020	0.60	5. 2023	0.60
3. 2021	0.60		

Projects/Proposals

5.*Project/Proposal Title : Cancer patient on a chip

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available): 06/2020

Project/Proposal End Date (MM/YYYY) (if available): 05/2025

*Total Award Amount (including Indirect Costs): \$ 522,056

*

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1. 2020	1.80	4. 2023	1.80
2. 2021	1.80	5. 2024	1.80
3. 2022	1.80		

6.*Project/Proposal Title : Modeling, pathogenesis and treatment of idiopathic pulmonary fibrosis

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

* National Institutes of Health (NHLBI)

*Primary Place of Performance : Columbia University

Project/Proposal Start Date (MM/YYYY) (if available): 09/2016

Project/Proposal End Date (MM/YYYY) (if available): 09/2023

*Total Award Amount (including Indirect Costs): \$ 954,800

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

*Year (YYYY)	Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1. 2018	1.00	4. 2021	1.00
2. 2019	1.00	5. 2022	1.00
3. 2020	1.00		

Projects/Proposals

7.*Project/Proposal Title : Nano systems Engineering Research Center for Directed Multiscale Assembly of Cellular Metamaterials with Nanoscale Precision: CELL-MET

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

* National Science Foundation, Boston University

*

Project/Proposal Start Date (MM/YYYY) (if available): 08/2017

Project/Proposal End Date (MM/YYYY) (if available): 07/2022

*Total Award Amount (including Indirect Costs): \$ 250,000

*

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1. 2017	0.25	4. 2020	0.25
2. 2018	0.25	5. 2021	0.25
3. 2019	0.25		

8.*Project/Proposal Title : Columbia training program in stem cell research

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*Primary Place of Performance : Columbia University

Project/Proposal Start Date (MM/YYYY) (if available): 07/2016

Project/Proposal End Date (MM/YYYY) (if available): 06/2021

*Total Award Amount (including Indirect Costs): \$ 273,270

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

*Year (YYYY)	Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1. 2016	0.60	4. 2019	0.60
2. 2017	0.60	5. 2020	0.60
3. 2018	0.60		

Projects/Proposals

9. *Project/Proposal Title : Optogenetic regulation of cardiac arrhythmia using patient-derived IPS cell models

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available) : 08/2018

Project/Proposal End Date (MM/YYYY) (if available) : 07/2021

*Total Award Amount (including Indirect Costs): \$ 359,866

*

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1. 2018	1.20	5.
2. 2019	1.20	
3. 2020	1.20	

10. *Project/Proposal Title : Engineering a cell replacement therapy for cystic fibrosis

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*Primary Place of Performance : Columbia University

Project/Proposal Start Date (MM/YYYY) (if available) : 05/2020

Project/Proposal End Date (MM/YYYY) (if available) : 04/2022

*Total Award Amount (including Indirect Costs): \$ 279,948

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1. 2020	0.30	4.	
2. 2021	0.30	5.	
3.			

Projects/Proposals

11.*Project/Proposal Title : Tissue Engineering Resource Center-Treatment of COVID-19 induced acute respiratory distress by inhalation of exosomes

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (ifavailable): 07/2020

Project/Proposal End Date (MM/YYYY) (ifavailable):

*

*

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1. 2020	0.12	5.
2.		
3.		

12.*Project/Proposal Title : Human Multi-Tissue Platform to Study Effects of Space Radiation and Countermeasures

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*Source of Support: NASA - The Translational Research Institute for Space Health

*Primary Place of Performance : Columbia University

Project/Proposal Start Date (MM/YYYY) (ifavailable): 10/2020

Project/Proposal End Date (MM/YYYY) (ifavailable): 09/2023

*Total Award Amount (including Indirect Costs): \$ 3,299,332

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1. 2020	0.60	4.	
2. 2021	0.60	5.	
3. 2022	0.60		

Projects/Proposals

13.*Project/Proposal Title : (This Proposal) NSF Engineering Research Center for Integrated Mechanobiology for Women’s Health (IMWEL)

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (ifavailable) : 09/2022

Project/Proposal End Date (MM/YYYY) (if available) : 08/2027

*Total Award Amount (including Indirect Costs): \$ 26,000,000

*

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1. 2022	0.12	4. 2025	0.12
2. 2023	0.12	5. 2026	0.12
3. 2024	0.12		

14.*Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

Projects/Proposals

15.*Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*

*

*Year (YYYY)	*Person Months (##.##)
1.	
2.	
3.	

Person Months (##.##)

5.

In Kind Contributions

*Required fields

In-Kind Contribution Section:

Current and Pending Support also includes in-kind contributions (such as office/laboratory space, equipment, supplies, employees, students). If the in-kind contributions are intended for use on the project being proposed to NSF, the information must be included as part of the Facilities, Equipment and Other Resources section of the proposal and need not be replicated in the individual's Current and Pending Support submission. In-kind contributions not intended for use on the project/proposal being proposed that have associated time obligations must be reported below. If the time commitment or dollar value is not readily ascertainable, reasonable estimates should be provided.

Please enter your support entries so they are grouped together based on the "Status of Support" and are in the order of Current to Pending from top to bottom

1.*Status of Support: Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.			
3.			

*Dollar Value of In-Kind Contribution: \$

In Kind Contributions

2.*Status of Support : Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

*Dollar Value of In-Kind Contribution:\$

3.*Status of Support : Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

*Dollar Value of In-Kind Contribution:\$

In Kind Contributions

4.*Status of Support : Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

*Dollar Value of In-Kind Contribution:\$

5.*Status of Support : Current Pending

*Source of Support :

*

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

*Dollar Value of In-Kind Contribution:\$

In Kind Contributions

6.*Status of Support : Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

*Dollar Value of In-Kind Contribution:\$

7.*Status of Support : Current Pending

*Source of Support :

*

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

*Dollar Value of In-Kind Contribution:\$

In Kind Contributions

8.*Status of Support : Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

*Dollar Value of In-Kind Contribution:\$

9.*Status of Support : Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

*Dollar Value of In-Kind Contribution:\$

In Kind Contributions

10.*Status of Support : Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

*Dollar Value of In-Kind Contribution:\$

NSF CURRENT AND PENDING SUPPORT

PI/co-PI/Senior Personnel: West, Harry

PROJECT/PROPOSAL CURRENT SUPPORT

1. Project/Proposal Title: Design-Driven Understanding for Human-AI/Agent Interaction

Proposal/Award Number (if available):

Source of Support: Amazon

Primary Place of Performance: Columbia University

Project/Proposal Support Start Date (if available): 2021/01

Project/Proposal Support End Date (if available): 2022/12

Total Award Amount (including Indirect Costs): \$200,000

Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project:

Year	Person-months per year committed
2021	1
2022	1

PROJECT/PROPOSAL PENDING SUPPORT

1. Project/Proposal Title: NSF Engineering Research Center for Integrated Mechanobiology for Women's Health (IMWEL)

Proposal/Award Number (if available):

Source of Support: National Science Foundation

Primary Place of Performance: Columbia University, New York, NY

Project/Proposal Support Start Date (if available): 2022/09

Project/Proposal Support End Date (if available): 2027/08

Total Award Amount (including Indirect Costs): \$26,000,000

Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project:

Year	Person-months per year committed
------	----------------------------------

Year	Person-months per year committed
2022	0.5
2023	0.5
2024	0.5
2025	0.5
2026	0.5

2. Project/Proposal Title: IMPLEMENTING REMOTE PATIENT MONITORING TO IMPROVE HYPERTENSION CONTROL IN A PRIMARY CARE NETWORK

Proposal/Award Number (if available):

Source of Support: NIH

Primary Place of Performance: Columbia University

Project/Proposal Support Start Date (if available): 2020/12

Project/Proposal Support End Date (if available): 2025/11

Total Award Amount (including Indirect Costs): \$4,067,260

Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project:

Year	Person-months per year committed
2021	1.2
2022	1.2
2023	1.2
2024	1.2
2025	1.2

*PI/co-PI/Senior Personnel Name: Azizi, Elham

***Required fields**

Note: NSF has provided 15 project/proposal and 10 in-kind contribution entries for users to populate. Please leave any unused entries blank.

Project/Proposal Section:

Current and Pending Support includes all resources made available to an individual in support of and/or related to all of his/her research efforts, regardless of whether or not they have monetary value.^[1] Information must be provided about all current and pending support, including this project, for ongoing projects, and for any proposals currently under consideration from whatever source^[2], irrespective of whether such support is provided through the proposing organization or is provided directly to the individual. Concurrent submission of a proposal to other organizations will not prejudice its review by NSF, if disclosed.^[3]

Please enter your support entries so they are grouped together based on the "Status of Support" and are in the order of Current, Pending, Submission Planned, and Transfer of Support from top to bottom

^[1] If the time commitment or dollar value is not readily ascertainable, reasonable estimates should be provided.

^[2] For example, Federal, State, local, foreign, public or private foundations, non-profits, industrial or other commercial organizations or internal funds allocated toward specific projects.

^[3] The Biological Sciences Directorate exception to this policy is delineated in PAPPG Chapter II.D.2.

Projects/Proposals

1. *Project/Proposal Title : Integrative framework for identifying dysregulated mechanisms in the tumor-immune microenvironment

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available): 4R00CA230195

*Source of Support: NIH NCI

*Primary Place of Performance : Columbia University, New York

Project/Proposal Start Date (MM/YYYY) (if available): 05/2020

Project/Proposal End Date (MM/YYYY) (if available):

*

*

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1. 2021	9.00	5.
2. 2022	9.00	
3. 2023	9.00	

2. *Project/Proposal Title : Probabilistic modeling of intercellular interactions that drive ferroptosis susceptibility of therapy-resistant cancer cells

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available): DSI-IICD Seed Grant

*Source of Support: Columbia University

*Primary Place of Performance : Columbia University, New York

Project/Proposal Start Date (MM/YYYY) (if available): 01/2020

Project/Proposal End Date (MM/YYYY) (if available): 12/2021

*Total Award Amount (including Indirect Costs): \$ 200,000

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1. 2020	0.96	4.	
2. 2021	0.96	5.	
3.			

Projects/Proposals

3.*Project/Proposal Title : Identification of a targetable macrophage maturation defect in human technologies and machine learning tools

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available): P30CA013696

*Source of Support: NIH/NCI Cancer Center Support Grant (Internal IPPP)

*

Project/Proposal Start Date (MM/YYYY) (if available): 07/1997

Project/Proposal End Date (MM/YYYY) (if available): 06/2025

*Total Award Amount (including Indirect Costs): \$ 5,302,111

*

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1. 2021	0.24	
2.		5.
3.		

4.*Project/Proposal Title : Dissecting drug resistance in serial uveal melanoma biopsies using integrated, multi modal single-cell profiling and novel machine learning tools.

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

* Columbia RISE internal grant (Internal award)

*Primary Place of Performance : Columbia University, New York

Project/Proposal Start Date (MM/YYYY) (if available): 07/2021

Project/Proposal End Date (MM/YYYY) (if available): 06/2022

*Total Award Amount (including Indirect Costs): \$ 80,000

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1. 2022	0.12	4.	
2.		5.	
3.			

Projects/Proposals

5.*Project/Proposal Title : Dissecting drug resistance in serial uveal melanoma biopsies using integrated, multi-modal single-cell profiling and novel machine learning tools.

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available): R21

*Source of Support: NIH

* Columbia University, New York

Project/Proposal Start Date (MM/YYYY) (if available): 07/2021

Project/Proposal End Date (MM/YYYY) (if available): 06/2023

*Total Award Amount (including Indirect Costs): \$ 445,500

*

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1. 2022	0.12	5.
2. 2023	0.12	
3.		

6.*Project/Proposal Title : The role of the CD58:CD2 axis in cancer immune evasion and resistance to immunotherapy

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available): R01

*Source of Support: NIH

*Primary Place of Performance : Columbia University, New York

Project/Proposal Start Date (MM/YYYY) (if available): 09/2021

Project/Proposal End Date (MM/YYYY) (if available): 08/2026

*Total Award Amount (including Indirect Costs): \$ 2,015,167

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

*Year (YYYY)	Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1. 2022	0.36	4. 2025	0.36
2. 2023	0.36	5. 2026	0.36
3. 2024	0.36		

Projects/Proposals

7.*Project/Proposal Title : Dissecting drug resistance in serial uveal melanoma biopsies using integrated, multi modal single-cell profiling and novel machine learning tools.

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

* Columbia Precision Medicine Pilot Award (Internal award)

*

Project/Proposal Start Date (MM/YYYY) (if available): 03/2021

Project/Proposal End Date (MM/YYYY) (if available): 02/2022

*Total Award Amount (including Indirect Costs): \$ 100,000

*

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1. 2022	0.12	5.
2.		
3.		

8.*Project/Proposal Title : Mapping out cell fate hierarchies in human endoderm differentiation using an engineered platform of reproducible tissue patterning

*Status of Support : Current Pending Submission
Planned Transfer of Support Proposal/Award Number (if available):

RECODE

*Source of Support: NSF

*Primary Place of Performance : Columbia University, New York

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*Total Award Amount (including Indirect Costs): \$ 1,500,000

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1. 2022	1.00	4. 2025	1.00
2. 2023	1.00	5.	

Projects/Proposals

3. 2024	1.00
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Projects/Proposals

9. *Project/Proposal Title : Clonal dynamics and chemoresistance mechanisms of minimal residual disease in acute leukemia

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available): R01

*Source of Support: NIH

*Primary Place of Performance : Columbia University, New York

Project/Proposal Start Date (MM/YYYY) (if available): 09/2021

Project/Proposal End Date (MM/YYYY) (if available): 08/2026

*Total Award Amount (including Indirect Costs): \$ 3,698,687

*

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1. 2022	1.2	4. 2025	1.2
2. 2023	1.2	5. 2026	1.2
3. 2024	1.2		

10. *Project/Proposal Title : Machine learning for modeling tumor-immune interactions

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available): Research Grant

*Source of Support: American Cancer Society

*Primary Place of Performance : Columbia University, New York

Project/Proposal Start Date (MM/YYYY) (if available): 01/2022

Project/Proposal End Date (MM/YYYY) (if available): 12/2025

*Total Award Amount (including Indirect Costs): \$ 792000

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1. 2022	0.96	4. 2025	0.96
2. 2023	0.96	5.	
3. 2024	0.96		

Projects/Proposals

11. *Project/Proposal Title : (This Proposal) NSF Engineering Research Center for Integrated Mechanobiology for Women’s Health (IMWEL)

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*Source of Support: NSF

*Primary Place of Performance : Columbia University, New York

Project/Proposal Start Date (MM/YYYY) (if available): 09/2022

Project/Proposal End Date (MM/YYYY) (if available):

*

*

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1. 2022	0.50	4. 2025	0.50
2. 2023	0.50	5. 2026	0.50
3. 2024	0.50		

12. *Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

Projects/Proposals

13. *Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*

*

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

14. *Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

Projects/Proposals

15.*Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*

*

*Year (YYYY)	*Person Months (##.##)
1.	
2.	
3.	

Person Months (##.##)

5.

In Kind Contributions

*Required fields

In-Kind Contribution Section:

Current and Pending Support also includes in-kind contributions (such as office/laboratory space, equipment, supplies, employees, students). If the in-kind contributions are intended for use on the project being proposed to NSF, the information must be included as part of the Facilities, Equipment and Other Resources section of the proposal and need not be replicated in the individual's Current and Pending Support submission. In-kind contributions not intended for use on the project/proposal being proposed that have associated time obligations must be reported below. If the time commitment or dollar value is not readily ascertainable, reasonable estimates should be provided.

Please enter your support entries so they are grouped together based on the "Status of Support" and are in the order of Current to Pending from top to bottom

1.*Status of Support: Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.			
3.			

*Dollar Value of In-Kind Contribution: \$

In Kind Contributions

2.*Status of Support : Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

*Dollar Value of In-Kind Contribution:\$

3.*Status of Support : Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

*Dollar Value of In-Kind Contribution:\$

In Kind Contributions

4.*Status of Support : Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

*Dollar Value of In-Kind Contribution:\$

5.*Status of Support : Current Pending

*Source of Support :

*

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

*Dollar Value of In-Kind Contribution:\$

In Kind Contributions

6. *Status of Support : Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

*Dollar Value of In-Kind Contribution:\$

7. *Status of Support : Current Pending

*Source of Support :

*

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

*Dollar Value of In-Kind Contribution:\$

In Kind Contributions

8.*Status of Support : Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

*Dollar Value of In-Kind Contribution:\$

9.*Status of Support : Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

*Dollar Value of In-Kind Contribution:\$

In Kind Contributions

10.*Status of Support : Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

*Dollar Value of In-Kind Contribution:\$

NSF CURRENT AND PENDING SUPPORT

PI/co-PI/Senior Personnel: Bayly, Philip V.

PROJECT/PROPOSAL CURRENT SUPPORT

1. Project/Proposal Title: Developing a Prediction Model to Guide Surgical Decision Making in Female Pelvic Organ Prolapse Surgery Based on Anatomic Measurements

Proposal/Award Number (if available):

Source of Support: Women's Health Technologies Collaboration Initiation Grant

Primary Place of Performance: Washington University in St. Louis, MO

Project/Proposal Support Start Date (if available): 05/2021

Project/Proposal Support End Date (if available): 04/2022

Total Award Amount (including Indirect Costs): \$20,000

Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project:

Year	Person-months per year committed
2022	0.01

Overall Objectives: To develop a clinical prediction model that will help guide surgeons in clinical and operative decision making at time of sacrocolpopexy (open or minimally invasive) using simple clinical data collected pre-operatively.

Statement of Potential Overlap: None

2. Project/Proposal Title: MRI Measurement of the Mechanical Vulnerability of the Brain

Proposal/Award Number (if available): U01NS112120

Source of Support: NIH/NINDS

Primary Place of Performance: Washington University in St. Louis, MO

Project/Proposal Support Start Date (if available): 09/2019

Project/Proposal Support End Date (if available): 07/2024

Total Award Amount (including Indirect Costs): \$3,635,041

Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project:

Year	Person-months per year committed
-------------	-----------------------------------------

Year	Person-months per year committed
2020	1.2
2021	1.2
2022	1.2
2023	1.2
2024	1.2

Overall Objectives: The goal is to make comprehensive measurements of 3D deformation of the human brain, in males and females of different ages, caused by skull motions of different types, directions, and frequency content.

Statement of Potential Overlap: None

3. Project/Proposal Title: Connecting the Mechanobiology of Tissue and Cells in Cerebral Cortical Folding

Proposal/Award Number (if available): R01NS111948

Source of Support: NIH/NINDS

Primary Place of Performance: Washington University in St. Louis, MO

Project/Proposal Support Start Date (if available): 07/2019

Project/Proposal Support End Date (if available): 06/2024

Total Award Amount (including Indirect Costs): \$2,551,998

Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project:

Year	Person-months per year committed
2020	1.2
2021	1.2
2022	1.2
2023	1.2
2024	1.2

Overall Objectives: The goal is to clarify the physical and biological mechanisms of normal and aberrant cortical folding.

Statement of Potential Overlap: None

4. Project/Proposal Title: High-Resolution, Anisotropic MR Elastography of the Brain

Proposal/Award Number (if available): R01EB027577

Source of Support: NIH/NIBIB

Primary Place of Performance: Washington University in St. Louis, MO

Project/Proposal Support Start Date (if available): 02/2019

Project/Proposal Support End Date (if available): 11/2022

Total Award Amount (including Indirect Costs): \$2,742,095

Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project:

Year	Person-months per year committed
2019	1.2
2020	1.2
2021	1.2
2022	1.2

Overall Objectives: Goals are to estimate anisotropic mechanical properties of brain tissue using MR elastography.

Statement of Potential Overlap: None

5. Project/Proposal Title: Regulation of Motile Cilia Assembly in Lung Disease

Proposal/Award Number (if available): R01HL12837

Source of Support: NIH/NHLBI

Primary Place of Performance: Washington University in St. Louis, MO

Project/Proposal Support Start Date (if available): 07/2017

Project/Proposal Support End Date (if available): 03/2024

Total Award Amount (including Indirect Costs): \$3,932,142

Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project:

Year	Person-months per year committed
2020	0.6
2021	0.6

Year	Person-months per year committed
2022	0.6
2023	0.6
2024	0.6

Overall Objectives: The goal of this proposal is to identify regulatory pathways used to assemble motile cilia including those for preassembly and satellite protein-associated trafficking and intraciliary motor docking.

Statement of Potential Overlap: None

PROJECT/PROPOSAL PENDING SUPPORT

1. Project/Proposal Title: THIS PROPOSAL NSF Engineering Research Center for Integrated Mechanobiology for Women's Health (IMWEL)

Proposal/Award Number (if available):

Source of Support: Columbia University/National Science Foundation

Primary Place of Performance: Washington University in St. Louis, MO

Project/Proposal Support Start Date (if available): 09/2022

Project/Proposal Support End Date (if available): 08/2027

Total Award Amount (including Indirect Costs): \$5,200,000

Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project:

Year	Person-months per year committed
2023	1
2024	1
2025	1
2026	1
2027	1

Overall Objectives: Informed by biomechanics and mechanobiology research, the NSF Engineering Research Center for Integrated Mechanobiology for Women's Health (IMWEL) will apply engineering innovations to overcome women's health challenges, attracting and training inclusive next generation engineers focused on a women-centered approach.

Statement of Potential Overlap: ****THIS PROPOSAL****

2. Project/Proposal Title: Skull-Brain Interactions and Anisotropic Brain Material Properties Measured by MR Elastography

Proposal/Award Number (if available):

Source of Support: Office of Naval Research

Primary Place of Performance: Washington University in St. Louis, MO

Project/Proposal Support Start Date (if available):

Project/Proposal Support End Date (if available):

Total Award Amount (including Indirect Costs): \$700,000

Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project:

Year	Person-months per year committed
2022	0.4
2023	0.4
2024	0.2

Overall Objectives: To quantify the mechanical interactions between the skull and brain and characterize brain mechanical properties using MR elastography.

Statement of Potential Overlap: None

*PI/co-PI/Senior Personnel Name: Bello, Natalie

***Required fields**

Note: NSF has provided 15 project/proposal and 10 in-kind contribution entries for users to populate. Please leave any unused entries blank.

Project/Proposal Section:

Current and Pending Support includes all resources made available to an individual in support of and/or related to all of his/her research efforts, regardless of whether or not they have monetary value.^[1] Information must be provided about all current and pending support, including this project, for ongoing projects, and for any proposals currently under consideration from whatever source^[2], irrespective of whether such support is provided through the proposing organization or is provided directly to the individual. Concurrent submission of a proposal to other organizations will not prejudice its review by NSF, if disclosed.^[3]

Please enter your support entries so they are grouped together based on the "Status of Support" and are in the order of Current, Pending, Submission Planned, and Transfer of Support from top to bottom

^[1] If the time commitment or dollar value is not readily ascertainable, reasonable estimates should be provided.

^[2] For example, Federal, State, local, foreign, public or private foundations, non-profits, industrial or other commercial organizations or internal funds allocated toward specific projects.

^[3] The Biological Sciences Directorate exception to this policy is delineated in PAPPG Chapter II.D.2.

Projects/Proposals

1.*Project/Proposal Title : Blood pressure measurement and hypertension in pregnanc

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (ifavailable): 5K23HL136853

*Source of Support: National Institutes of Health (NHLBI)

*

Project/Proposal Start Date (MM/YYYY) (ifavailable): 04/2018

Project/Proposal End Date (MM/YYYY) (ifavailable):

*

*

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1. 2018	9.00	4. 2021	9.00
2. 2019	9.00	5. 2022	9.00
3. 2020	9.00		

2.*Project/Proposal Title : Cardiac Manifestations of Preeclampsia

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (ifavailable): 1R01HL153382

*Source of Support: National Institutes of Health (NHLBI)

*Primary Place of Performance : Columbia University

Project/Proposal Start Date (MM/YYYY) (if available): 07/2020

Project/Proposal End Date (MM/YYYY) (if available): 06/2024

*Total Award Amount (including Indirect Costs): \$ 306,088

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

*Year (YYYY)	Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1. 2020	2.40	4. 2023	2.40
2. 2021	2.40	5. 2024	2.40
3. 2022	2.40		

Projects/Proposals

3.*Project/Proposal Title : Arterial stiffness in mother/infant dyads: Life course approach to prevent cardiovascular disease

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available): 04/2021

Project/Proposal End Date (MM/YYYY) (if available): 03/2026

*Total Award Amount (including Indirect Costs): \$ 5,000

*

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1. 2021	0.58	4. 2024	0.58
2. 2022	0.58	5. 2025	0.58
3. 2023	0.58		

4.*Project/Proposal Title : (This Proposal) NSF Engineering Research Center for Integrated Mechanobiology for Women’s Health (IMWEL)

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*Primary Place of Performance : Columbia University

Project/Proposal Start Date (MM/YYYY) (if available): 09/2022

Project/Proposal End Date (MM/YYYY) (if available): 08/2027

*Total Award Amount (including Indirect Costs): \$ 26,000,000

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

*Year (YYYY)	Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1. 2022	0.50	4. 2025	0.50
2. 2023	0.50	5. 2026	0.50
3. 2024	0.50		

Projects/Proposals

5.*Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*

*

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

6.*Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

Projects/Proposals

7.*Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*

*

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

8.*Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

Projects/Proposals

9. *Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*

*

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

10. *Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

Projects/Proposals

11. *Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*

*

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

12. *Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

Projects/Proposals

13. *Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*

*

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

14. *Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

Projects/Proposals

15.*Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*

*

*Year (YYYY)	*Person Months (##.##)
1.	
2.	
3.	

Person Months (##.##)

5.

In Kind Contributions

*Required fields

In-Kind Contribution Section:

Current and Pending Support also includes in-kind contributions (such as office/laboratory space, equipment, supplies, employees, students). If the in-kind contributions are intended for use on the project being proposed to NSF, the information must be included as part of the Facilities, Equipment and Other Resources section of the proposal and need not be replicated in the individual’s Current and Pending Support submission. In-kind contributions not intended for use on the project/proposal being proposed that have associated time obligations must be reported below. If the time commitment or dollar value is not readily ascertainable, reasonable estimates should be provided.

Please enter your support entries so they are grouped together based on the "Status of Support" and are in the order of Current to Pending from top to bottom

1.*Status of Support: Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.			
3.			

*Dollar Value of In-Kind Contribution: \$

In Kind Contributions

2.*Status of Support : Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

*Dollar Value of In-Kind Contribution:\$

3.*Status of Support : Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

*Dollar Value of In-Kind Contribution:\$

In Kind Contributions

4.*Status of Support : Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

*Dollar Value of In-Kind Contribution:\$

5.*Status of Support : Current Pending

*Source of Support :

*

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

*Dollar Value of In-Kind Contribution:\$

In Kind Contributions

6.*Status of Support : Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

*Dollar Value of In-Kind Contribution:\$

7.*Status of Support : Current Pending

*Source of Support :

*

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

*Dollar Value of In-Kind Contribution:\$

In Kind Contributions

8.*Status of Support : Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

*Dollar Value of In-Kind Contribution:\$

9.*Status of Support : Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

*Dollar Value of In-Kind Contribution:\$

In Kind Contributions

10. *Status of Support : Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

*Dollar Value of In-Kind Contribution:\$

NSF CURRENT AND PENDING SUPPORT

PI/co-PI/Senior Personnel: CHESLER, NAOMI

PROJECT/PROPOSAL CURRENT SUPPORT

1. Project/Proposal Title: NSF Engineering Research Center for Integrated Mechanobiology for Women's Health (IMWEL) (This Proposal)

Proposal/Award Number (if available):

Source of Support: Columbia University (Prime: National Science Foundation)

Primary Place of Performance: University of California, Irvine

Project/Proposal Support Start Date (if available): 2022/09

Project/Proposal Support End Date (if available): 2027/08

Total Award Amount (including Indirect Costs): \$3,690,000

Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project:

Year	Person-months per year committed
2023	0.35
2024	0.75
2025	1
2026	1
2027	1

2. Project/Proposal Title: Multiscale computational modeling of right ventricular failure

Proposal/Award Number (if available):

Source of Support: NIH/NHLBI

Primary Place of Performance: Dhhs, Phs, National Institutes Of Health

Project/Proposal Support Start Date (if available): 2020/07

Project/Proposal Support End Date (if available): 2025/06

Total Award Amount (including Indirect Costs): \$3,759,621

Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project:

Year	Person-months per year committed
2021	1.5
2022	1.5
2023	1.5
2024	1.5
2025	1.5

3. Project/Proposal Title: Mechanobiological mechanisms of pulmonary hypertension secondary to left heart failure

Proposal/Award Number (if available):

Source of Support: NIH/NHLBI

Primary Place of Performance: Dhhs, Phs, National Institutes Of Health

Project/Proposal Support Start Date (if available): 2020/04

Project/Proposal Support End Date (if available): 2024/03

Total Award Amount (including Indirect Costs): \$2,752,696

Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project:

Year	Person-months per year committed
2020	1
2021	1
2022	1
2023	1
2024	1

4. Project/Proposal Title: Early pulmonary vascular dysfunction in the post-9/11 military veterans

Proposal/Award Number (if available):

Source of Support: NIH/NHLBI

Primary Place of Performance: Va New Jersey Health Care System

Project/Proposal Support Start Date (if available): 2019/10

Project/Proposal Support End Date (if available): 2021/09

Total Award Amount (including Indirect Costs): \$106,790

Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project:

Year	Person-months per year committed
2019	1.2
2020	1.2
2021	1.2

5. Project/Proposal Title: Mechanisms of Right Ventricle Adaptation to Pulmonary Hypertension

Proposal/Award Number (if available):

Source of Support: NIH/NHLBI

Primary Place of Performance: Indiana University (PTE)

Project/Proposal Support Start Date (if available): 2019/09

Project/Proposal Support End Date (if available): 2024/06

Total Award Amount (including Indirect Costs): \$128,851

Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project:

Year	Person-months per year committed
2020	1.5
2021	1.5
2022	1.5
2023	1.5
2024	1.5

6. Project/Proposal Title: The role of YAP1 in angiogenesis during organ regeneration

Proposal/Award Number (if available):

Source of Support: Medical College of Wisconsin (PTE) (Prime: NIH/NHLBI)

Primary Place of Performance: University of California, Irvine

Project/Proposal Support Start Date (if available): 2019/07

Project/Proposal Support End Date (if available): 2023/06

Total Award Amount (including Indirect Costs): \$99,295

Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project:

Year	Person-months per year committed
2019	0.6
2020	0.6
2021	0.6
2022	0.6

7. Project/Proposal Title: Role of endothelial Twist1 in vascular remodeling in pulmonary hypertension

Proposal/Award Number (if available):

Source of Support: Medical College of Wisconsin (PTE) (Prime: NIH/NHLBI)

Primary Place of Performance: University of California, Irvine

Project/Proposal Support Start Date (if available): 2019/02

Project/Proposal Support End Date (if available): 2023/01

Total Award Amount (including Indirect Costs): \$96,595

Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project:

Year	Person-months per year committed
2019	0.6
2020	0.6
2021	0.6
2022	0.6
2023	0.6

PROJECT/PROPOSAL PENDING SUPPORT

1. Project/Proposal Title: Planning Grant: Engineering Research Center for Engineering Solutions to Address Cardiovascular Health Disparities

Proposal/Award Number (if available):

Source of Support: NSF

Primary Place of Performance: UCI

Project/Proposal Support Start Date (if available): 2021/08

Project/Proposal Support End Date (if available): 2022/07

Total Award Amount (including Indirect Costs): \$100,000

Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project:

Year	Person-months per year committed
2021	0.25
2022	0.25

NSF CURRENT AND PENDING SUPPORT

PI/co-PI/Senior Personnel: Downing, Timothy

PROJECT/PROPOSAL CURRENT SUPPORT

1. Project/Proposal Title: URoL: Epigenetics 2: Connecting cell fate and epigenome drift through physical models of chromatin structure and dynamics

Proposal/Award Number (if available):

Source of Support: National Science Foundation

Primary Place of Performance: University of California, Irvine

Project/Proposal Support Start Date (if available): 2020/04

Project/Proposal Support End Date (if available): 2025/06

Total Award Amount (including Indirect Costs): \$3,000,000

Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project:

Year	Person-months per year committed
2020	1
2021	1
2022	1
2023	1
2024	1

2. Project/Proposal Title: Spatial epigenomics: A new framework for overcoming mechanical heterogeneity in solid tumors

Proposal/Award Number (if available):

Source of Support: National Institutes of Health

Primary Place of Performance: University of California, Irvine

Project/Proposal Support Start Date (if available): 2019/06

Project/Proposal Support End Date (if available): 2024/05

Total Award Amount (including Indirect Costs): \$2,352,500

Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project:

Year	Person-months per year committed
2019	3
2020	3
2021	3
2023	3
2024	2

3. Project/Proposal Title: Epigenetic regulation of macrophage response to biomaterial implants
 Proposal/Award Number (if available):

Source of Support: National Institutes of Health

Primary Place of Performance: University of California, Irvine

Project/Proposal Support Start Date (if available): 2019/01

Project/Proposal Support End Date (if available): 2022/01

Total Award Amount (including Indirect Costs): \$397,992

Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project:

Year	Person-months per year committed
2019	0.75
2020	1
2021	0.5
2022	1

PROJECT/PROPOSAL PENDING SUPPORT

1. Project/Proposal Title: NSF Engineering Research Center for Integrated Mechanobiology for Women’s Health (IMWEL) (This Proposal)

Proposal/Award Number (if available):

Source of Support: Columbia University (Prime: National Science Foundaiton)

Primary Place of Performance: University of California, Irvine

Project/Proposal Support Start Date (if available): 2022/09

Project/Proposal Support End Date (if available): 2027/08

Total Award Amount (including Indirect Costs): \$3,690,000

Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project:

Year	Person-months per year committed
2023	0.35
2024	0.75
2025	1
2026	1
2027	1

2. Project/Proposal Title: EPI-SIGN: Epigenetic SLE Indicators of Glomerular Nephritis

Proposal/Award Number (if available):

Source of Support: New York University (Prime: Lupus Research Alliance)

Primary Place of Performance: University of California, Irvine

Project/Proposal Support Start Date (if available): 2021/09

Project/Proposal Support End Date (if available): 2024/08

Total Award Amount (including Indirect Costs): \$1,532

Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project:

Year	Person-months per year committed
2022	0.03
2023	0.03
2024	0.03

3. Project/Proposal Title: Epigenetic targeting to enhance ADPKD therapy

Proposal/Award Number (if available):

Source of Support: USC (Prime: National Institutes of Health)

Primary Place of Performance: University of California, Irvine

Project/Proposal Support Start Date (if available): 2021/06

Project/Proposal Support End Date (if available): 2023/05

Total Award Amount (including Indirect Costs): \$134,907

Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project:

Year	Person-months per year committed
2021	0.5
2022	0.5

*PI/co-PI/Senior Personnel Name: Christine P Hendon

***Required fields**

Note: NSF has provided 15 project/proposal and 10 in-kind contribution entries for users to populate. Please leave any unused entries blank.

Project/Proposal Section:

Current and Pending Support includes all resources made available to an individual in support of and/or related to all of his/her research efforts, regardless of whether or not they have monetary value.^[1] Information must be provided about all current and pending support, including this project, for ongoing projects, and for any proposals currently under consideration from whatever source^[2], irrespective of whether such support is provided through the proposing organization or is provided directly to the individual. Concurrent submission of a proposal to other organizations will not prejudice its review by NSF, if disclosed.^[3]

Please enter your support entries so they are grouped together based on the "Status of Support" and are in the order of Current, Pending, Submission Planned, and Transfer of Support from top to bottom

^[1] If the time commitment or dollar value is not readily ascertainable, reasonable estimates should be provided.

^[2] For example, Federal, State, local, foreign, public or private foundations, non-profits, industrial or other commercial organizations or internal funds allocated toward specific projects.

^[3] The Biological Sciences Directorate exception to this policy is delineated in PAPPG Chapter II.D.2.

Projects/Proposals

1.*Project/Proposal Title : High Resolution Imaging of the Myocardium

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available): 4DP2HL127776-02

*Source of Support: NIH

*

Project/Proposal Start Date (MM/YYYY) (if available): 07/2019

Project/Proposal End Date (MM/YYYY) (if available):

*

*

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1. 2019	1.50	5.
2. 2020	1.50	
3. 2021	1.00	

2.*Project/Proposal Title : A Computational Framework for the Clinical Evaluation of the Soft Tissue Mechanics in Pregnancy

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available): 1R01HD091153-01

*Source of Support: NIH

*Primary Place of Performance : Columbia University

Project/Proposal Start Date (MM/YYYY) (if available): 09/2017

Project/Proposal End Date (MM/YYYY) (if available): 08/2022

*Total Award Amount (including Indirect Costs): \$ 1,880,241

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

*	Year (YYYY)	Person Months (##.##)
1. 2017	0.50	4. 2020
2. 2018	0.50	
3. 2019	0.50	5. 2021
		0.50

Projects/Proposals

3.*Project/Proposal Title : Optically guided catheter ablation of atrial fibrillation

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available): 1R01HL149369-01

*Source of Support: NIH

* Columbia University and Case Western Reserve University

Project/Proposal Start Date (MM/YYYY) (if available): 08/2019

Project/Proposal End Date (MM/YYYY) (if available): 07/2023

*Total Award Amount (including Indirect Costs): \$ 2,841,635

*

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1. 2019	1.00	4. 2022	1.50
2. 2020	1.50	5. 2023	1.50
3. 2021	1.50		

4.*Project/Proposal Title : Auditory Mechanics and Cochlear Amplification

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*Primary Place of Performance : Columbia University

Project/Proposal Start Date (MM/YYYY) (if available): 03/2021

Project/Proposal End Date (MM/YYYY) (if available): 02/2026

*Total Award Amount (including Indirect Costs): \$ 1,880,241

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

*	Year (YYYY)	Person Months (##.##)	
1. 2021	0.50	4. 2024	0.50
2. 2022	0.50	5. 2025	0.50
3. 2023	0.50		

Projects/Proposals

5.*Project/Proposal Title : Image Guided Sample Selection in Breast Cancer Diagnostics using Ultra-High Resolution Optical Coherence

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available): 1R01CA260741-01

*Source of Support: NIH

*

Project/Proposal Start Date (MM/YYYY) (if available): 12/2021

Project/Proposal End Date (MM/YYYY) (if available): 11/2026

*Total Award Amount (including Indirect Costs): \$ 3,999,670

*

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1. 2022	1.92	4. 2025	1.92
2. 2023	1.92	5. 2026	1.92
3. 2024	1.92		

6.*Project/Proposal Title : Evaluating the role of photobiomodulation in human cervical remodeling in pregnancy

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available): 1 R21 HD106061-01

*Source of Support: NIH

*Primary Place of Performance : Columbia University

Project/Proposal Start Date (MM/YYYY) (if available): 07/2021

Project/Proposal End Date (MM/YYYY) (if available): 06/2023

*Total Award Amount (including Indirect Costs): \$ 445,500

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1. 2022	0.63	4.	
2. 2023	0.63	5.	
3.			

Projects/Proposals

7.*Project/Proposal Title : (This Proposal) NSF Engineering Research Center for Integrated Mechanobiology for Women’s Health (IMWEL)

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available): 09/2022

Project/Proposal End Date (MM/YYYY) (if available): 08/2027

*Total Award Amount (including Indirect Costs): \$ 26,000,000

*

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1. 2022	0.50	4. 2025	0.50
2. 2023	0.50	5. 2026	0.50
3. 2024	0.50		

8.*Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

Projects/Proposals

9. *Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*

*

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

10. *Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

Projects/Proposals

11. *Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*

*

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

12. *Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

Projects/Proposals

13. *Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*

*

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

14. *Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

Projects/Proposals

15.*Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*

*

*Year (YYYY)	*Person Months (##.##)
1.	
2.	
3.	

Person Months (##.##)

5.

In Kind Contributions

*Required fields

In-Kind Contribution Section:

Current and Pending Support also includes in-kind contributions (such as office/laboratory space, equipment, supplies, employees, students). If the in-kind contributions are intended for use on the project being proposed to NSF, the information must be included as part of the Facilities, Equipment and Other Resources section of the proposal and need not be replicated in the individual's Current and Pending Support submission. In-kind contributions not intended for use on the project/proposal being proposed that have associated time obligations must be reported below. If the time commitment or dollar value is not readily ascertainable, reasonable estimates should be provided.

Please enter your support entries so they are grouped together based on the "Status of Support" and are in the order of Current to Pending from top to bottom

1.*Status of Support: Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.			
3.			

*Dollar Value of In-Kind Contribution: \$

In Kind Contributions

2.*Status of Support : Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

*Dollar Value of In-Kind Contribution:\$

3.*Status of Support : Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

*Dollar Value of In-Kind Contribution:\$

In Kind Contributions

4.*Status of Support : Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

*Dollar Value of In-Kind Contribution:\$

5.*Status of Support : Current Pending

*Source of Support :

*

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

*Dollar Value of In-Kind Contribution:\$

In Kind Contributions

6.*Status of Support : Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

*Dollar Value of In-Kind Contribution:\$

7.*Status of Support : Current Pending

*Source of Support :

*

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

*Dollar Value of In-Kind Contribution:\$

In Kind Contributions

8.*Status of Support : Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

*Dollar Value of In-Kind Contribution:\$

9.*Status of Support : Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

*Dollar Value of In-Kind Contribution:\$

In Kind Contributions

10. *Status of Support : Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

*Dollar Value of In-Kind Contribution:\$

*PI/co-PI/Senior Personnel Name: Christine King

***Required fields**

Note: NSF has provided 15 project/proposal and 10 in-kind contribution entries for users to populate. Please leave any unused entries blank.

Project/Proposal Section:

Current and Pending Support includes all resources made available to an individual in support of and/or related to all of his/her research efforts, regardless of whether or not they have monetary value.^[1] Information must be provided about all current and pending support, including this project, for ongoing projects, and for any proposals currently under consideration from whatever source^[2], irrespective of whether such support is provided through the proposing organization or is provided directly to the individual. Concurrent submission of a proposal to other organizations will not prejudice its review by NSF, if disclosed.^[3]

Please enter your support entries so they are grouped together based on the "Status of Support" and are in the order of Current, Pending, Submission Planned, and Transfer of Support from top to bottom

[1] If the time commitment or dollar value is not readily ascertainable, reasonable estimates should be provided.

[2] For example, Federal, State, local, foreign, public or private foundations, non-profits, industrial or other commercial organizations or internal funds allocated toward specific projects.

[3] The Biological Sciences Directorate exception to this policy is delineated in PAPPG Chapter II.D.2.

Projects/Proposals

1.*Project/Proposal Title : Enhancing Clinical Needs Finding

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (ifavailable): 02/2020

Project/Proposal End Date (MM/YYYY) (ifavailable) :

*

*

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1. 2020	0.01	5.
2. 2021	0.01	
3. 2023	0.01	

2.*Project/Proposal Title : NSF Engineering Research Center for Integrated Mechanobiology for Women’s Health (IMWEL) (This Proposal)

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*Source of Support: Columbia University (Prime: National Science Foundation)

*Primary Place of Performance : UC Irvine

Project/Proposal Start Date (MM/YYYY) (if available): 09/2022

Project/Proposal End Date (MM/YYYY) (if available): 08/2027

*Total Award Amount (including Indirect Costs): \$ 3,690,000

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1. 2023	0.25	4. 2026	0.50
2. 2024	0.50	5. 2027	0.50
3. 2025	0.50		

Projects/Proposals

3.*Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*

*

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

4.*Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

Projects/Proposals

5.*Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*

*

*Year (YYYY)	*Person Months (##.##)
1.	
2.	
3.	

Person Months (##.##)

5.

6.*Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

Projects/Proposals

7.*Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*

*

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

8.*Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

Projects/Proposals

9. *Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*

*

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

10. *Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

Projects/Proposals

11. *Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*
*

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*
*

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

12. *Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*
*

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

Projects/Proposals

13. *Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*

*

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

14. *Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

Projects/Proposals

15.*Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*

*

*Year (YYYY)	*Person Months (##.##)
1.	
2.	
3.	

Person Months (##.##)

5.

In Kind Contributions

*Required fields

In-Kind Contribution Section:

Current and Pending Support also includes in-kind contributions (such as office/laboratory space, equipment, supplies, employees, students). If the in-kind contributions are intended for use on the project being proposed to NSF, the information must be included as part of the Facilities, Equipment and Other Resources section of the proposal and need not be replicated in the individual's Current and Pending Support submission. In-kind contributions not intended for use on the project/proposal being proposed that have associated time obligations must be reported below. If the time commitment or dollar value is not readily ascertainable, reasonable estimates should be provided.

Please enter your support entries so they are grouped together based on the "Status of Support" and are in the order of Current to Pending from top to bottom

1.*Status of Support: Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.			
3.			

*Dollar Value of In-Kind Contribution: \$

In Kind Contributions

2.*Status of Support : Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

*Dollar Value of In-Kind Contribution:\$

3.*Status of Support : Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

*Dollar Value of In-Kind Contribution:\$

In Kind Contributions

4.*Status of Support : Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

*Dollar Value of In-Kind Contribution:\$

5.*Status of Support : Current Pending

*Source of Support :

*

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

*Dollar Value of In-Kind Contribution:\$

In Kind Contributions

6.*Status of Support : Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

*Dollar Value of In-Kind Contribution:\$

7.*Status of Support : Current Pending

*Source of Support :

*

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

*Dollar Value of In-Kind Contribution:\$

In Kind Contributions

8.*Status of Support : Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

*Dollar Value of In-Kind Contribution:\$

9.*Status of Support : Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

*Dollar Value of In-Kind Contribution:\$

In Kind Contributions

10.*Status of Support : Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

*Dollar Value of In-Kind Contribution:\$

NSF CURRENT AND PENDING SUPPORT

PI/co-PI/Senior Personnel: Lake, Spencer P.

PROJECT/PROPOSAL CURRENT SUPPORT

1. Project/Proposal Title: Machine learning approach for disease evaluation of elbow post-traumatic contracture and osteoarthritis

Proposal/Award Number (if available): P30AR074992

Source of Support: National Institutes of Health

Primary Place of Performance: Washington University in St. Louis

Project/Proposal Support Start Date (if available): 04/2021

Project/Proposal Support End Date (if available): 03/2022

Total Award Amount (including Indirect Costs): \$40,000

Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project:

Year	Person-months per year committed
2022	0.01

Overall Objectives: Develop a machine learning approach to (1) automate analysis of digital histopathology sections of healthy/contracted rat elbow joints, (2) elucidate temporospatial features that are predictive of injury/healing state, and (3) identify correlative relationships between multi-modal imaging (histology, MRI) to lay the groundwork for future clinical translation in the treatment of post-traumatic joint contracture.

Statement of Potential Overlap: No overlap.

2. Project/Proposal Title: Defining the role of elastic fibers in tendon mechanics

Proposal/Award Number (if available): 2037125

Source of Support: National Science Foundation

Primary Place of Performance: Washington University in St. Louis

Project/Proposal Support Start Date (if available): 02/2021

Project/Proposal Support End Date (if available): 01/2024

Total Award Amount (including Indirect Costs): \$454,261

Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project:

Year	Person-months per year committed
2021	1
2022	1
2023	1

Overall Objectives: Elucidate the mechanical role of elastic fibers in tendons of distinct functional roles during states of health, mechanical fatigue, and in vivodegeneration accumulation. Leverage a novel label-free multi-photon imaging technique to quantify the spatial nature of the microstructural elastic fiber network in tendons.

Statement of Potential Overlap: No overlap.

3. Project/Proposal Title: Reflected-light polarization imaging to quantify tissue microstructure and damage

Proposal/Award Number (if available): 1761561

Source of Support: National Science Foundation

Primary Place of Performance: Washington University in St. Louis

Project/Proposal Support Start Date (if available): 05/2018

Project/Proposal Support End Date (if available): 04/2022

Total Award Amount (including Indirect Costs): \$388,541

Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project:

Year	Person-months per year committed
2019	1
2020	1
2021	1

Overall Objectives: Develop a reflected-light based quantitative polarization imaging (rQPLI) technique to determine collagen fiber organization in musculoskeletal soft tissues (e.g., tendon and ligament). Utilize the rQPLI technique to trackdynamic changes in collagen alignment during mechanically- or biologicallymediated matrix degradation.

Statement of Potential Overlap: No overlap.

4. Project/Proposal Title: Physical and biological treatment strategies to prevent post-traumatic joint contracture

Proposal/Award Number (if available): R01AR071444

Source of Support: National Institutes of Health

Primary Place of Performance: Washington University in St. Louis

Project/Proposal Support Start Date (if available): 09/2017

Project/Proposal Support End Date (if available): 03/2023

Total Award Amount (including Indirect Costs): \$1,667,500

Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project:

Year	Person-months per year committed
2018	2
2019	2
2020	2
2021	2
2022	2

Overall Objectives: Determine whether physical- or biological-based intervention strategies are able to prevent the development of post-traumatic joint contracture in an animal model of elbow injury.

Statement of Potential Overlap: No overlap.

PROJECT/PROPOSAL PENDING SUPPORT

1. Project/Proposal Title: THIS PROPOSAL NSF Engineering Research Center for Integrated Mechanobiology for Women's Health (IMWEL)

Proposal/Award Number (if available):

Source of Support: Columbia University/National Science Foundation

Primary Place of Performance: Washington University in St. Louis

Project/Proposal Support Start Date (if available): 09/2022

Project/Proposal Support End Date (if available): 08/2027

Total Award Amount (including Indirect Costs): \$5,200,000

Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project:

Year	Person-months per year committed
-------------	-----------------------------------------

Year	Person-months per year committed
2023	1
2024	1
2025	1
2026	1
2027	1

Overall Objectives: Informed by biomechanics and mechanobiology research, the NSF Engineering Research Center for Integrated Mechanobiology for Women's Health (IMWEL) will apply engineering innovations to overcome women's health challenges, attracting and training inclusive next generation engineers focused on a women-centered approach.

Statement of Potential Overlap: ****THIS PROPOSAL****

*PI/co-PI/Senior Personnel Name: Wendy Liu

***Required fields**

Note: NSF has provided 15 project/proposal and 10 in-kind contribution entries for users to populate. Please leave any unused entries blank.

Project/Proposal Section:

Current and Pending Support includes all resources made available to an individual in support of and/or related to all of his/her research efforts, regardless of whether or not they have monetary value.^[1] Information must be provided about all current and pending support, including this project, for ongoing projects, and for any proposals currently under consideration from whatever source^[2], irrespective of whether such support is provided through the proposing organization or is provided directly to the individual. Concurrent submission of a proposal to other organizations will not prejudice its review by NSF, if disclosed.^[3]

Please enter your support entries so they are grouped together based on the "Status of Support" and are in the order of Current, Pending, Submission Planned, and Transfer of Support from top to bottom

^[1] If the time commitment or dollar value is not readily ascertainable, reasonable estimates should be provided.

^[2] For example, Federal, State, local, foreign, public or private foundations, non-profits, industrial or other commercial organizations or internal funds allocated toward specific projects.

^[3] The Biological Sciences Directorate exception to this policy is delineated in PAPPG Chapter II.D.2.

Projects/Proposals

1.*Project/Proposal Title : COVID-19 and the Role of the Immune System in Cardiac Function and Pathology

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available): 10/2020

Project/Proposal End Date (MM/YYYY) (if available):

*

*

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1. 2021	0.25	5.
2. 2022	0.25	
3. 2023	0.25	

2.*Project/Proposal Title : Biophysical regulation of macrophage function

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*Source of Support: National Institutes of Health

*Primary Place of Performance : UC Irvine

Project/Proposal Start Date (MM/YYYY) (if available): 09/2020

Project/Proposal End Date (MM/YYYY) (if available): 08/2025

*Total Award Amount (including Indirect Costs): \$ 2,893,485

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1. 2021	2.00	4. 2024	2.00
2. 2022	2.00	5. 2025	2.00
3. 2023	2.00		

Projects/Proposals

3.*Project/Proposal Title : Mechanical regulation of skin repair and regeneration

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available): 07/2020

Project/Proposal End Date (MM/YYYY) (if available):

*

*

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1. 2020	0.50	5.
2. 2021	0.50	
3.		

4.*Project/Proposal Title : Regulation of microglia by tissue stiffness and Piezo1 in Alzheimer's disease

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*Source of Support: National Institutes of Health

*Primary Place of Performance : UC Irvine

Project/Proposal Start Date (MM/YYYY) (if available): 09/2020

Project/Proposal End Date (MM/YYYY) (if available): 08/2022

*Total Award Amount (including Indirect Costs): \$ 431,750

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1. 2021	0.50	4.	
2. 2022	0.50	5.	
3.			

Projects/Proposals

5.*Project/Proposal Title : Nanoparticle targeting within the joint for site-specific delivery of osteoarthritis therapeutics

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available): 04/2018

Project/Proposal End Date (MM/YYYY) (if available):

*

*

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1. 2018	1.00	4. 2021	1.00
2. 2019	1.00	5. 2022	1.00
3. 2020	1.00		

6.*Project/Proposal Title : Targeted nanoprobe for multiplexed 19F-MRI of macrophage polarization

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*Source of Support: National Institutes of Health

*Primary Place of Performance : UC Irvine

Project/Proposal Start Date (MM/YYYY) (if available): 07/2018

Project/Proposal End Date (MM/YYYY) (if available): 06/2020

*Total Award Amount (including Indirect Costs): \$ 83,402

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1. 2018	0.24	4.	
2. 2019	0.24	5.	
3.			

Projects/Proposals

7.*Project/Proposal Title : Epigenetic regulation of macrophage response to biomaterial implants

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (ifavailable): 04/2019

Project/Proposal End Date (MM/YYYY) (ifavailable) :

*

*

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1. 2019	1.00	5.
2. 2020	1.00	
3. 2021	1.00	

8.*Project/Proposal Title : NSF Engineering Research Center for Integrated Mechanobiology for Women’s Health (IMWEL) (This Proposal)

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*Source of Support: Columbia University (Prime: National Science Foundation)

*Primary Place of Performance : UC Irvine

Project/Proposal Start Date (MM/YYYY) (if available): 09/2022

Project/Proposal End Date (MM/YYYY) (if available): 08/2027

*Total Award Amount (including Indirect Costs): \$ 3,690,000

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1. 2023	0.35	4. 2026	1.00
2. 2024	0.75	5. 2027	1.00
3. 2025	1.00		

NSF CURRENT AND PENDING SUPPORT

PI/co-PI/Senior Personnel: Lowder, Jerry Lane

PROJECT/PROPOSAL CURRENT SUPPORT

1. Project/Proposal Title: Developing a Prediction Model to Guide Surgical Decision Making in Female Pelvic Organ Prolapse Surgery Based on Anatomic Measurements

Proposal/Award Number (if available):

Source of Support: Washington University in St. Louis

Primary Place of Performance: Washington University, St. Louis, MO

Project/Proposal Support Start Date (if available): 06/2021

Project/Proposal Support End Date (if available): 05/2022

Total Award Amount (including Indirect Costs): \$20,000

Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project:

Year	Person-months per year committed
2021	0.12

Overall Objectives: The objective of this study is to develop a clinical prediction model that will help guide surgeons in clinical and operative decision-making at the time of sacrocolpopexy (open or minimally invasive) using simple clinical data collected preoperatively.

Statement of Potential Overlap: N/A

2. Project/Proposal Title: Bladder Health Promotion and LUTS Prevention in Adolescent and Adult Women Across the Life Course

Proposal/Award Number (if available): U01DK106853

Source of Support: NIH/NIDDK

Primary Place of Performance: Washington University, St. Louis, MO

Project/Proposal Support Start Date (if available): 09/2020

Project/Proposal Support End Date (if available): 06/2025

Total Award Amount (including Indirect Costs): \$1,590,000

Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project:

Year	Person-months per year committed
2020	0.9
2021	0.9
2022	0.9
2023	0.9
2024	0.9

Overall Objectives: The goal of this project is to plan, perform, and analyze the research studies necessary to establish the scientific basis for future prevention intervention studies for lower urinary tract symptoms and conditions in women.

Statement of Potential Overlap: N/A

- Project/Proposal Title: Clinical Outcomes Research Training in Female Lower Urinary Tract Disorders

Proposal/Award Number (if available): T32DK120497

Source of Support: NIH/NIDDK

Primary Place of Performance: Washington University, St. Louis, MO

Project/Proposal Support Start Date (if available): 07/2020

Project/Proposal Support End Date (if available): 06/2025

Total Award Amount (including Indirect Costs): \$851,999

Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project:

Year	Person-months per year committed
2020	1.2
2021	1.2
2022	1.2
2023	1.2
2024	1.2

Overall Objectives: Our T32 training program proposes to equip MD clinical fellows and PhD post-doctoral fellows with the necessary tools (i.e., didactic training, experiential training, career development, and a trans-disciplinary approach) to perform high-quality clinical outcomes research in female lower urinary tract disorders and to serve as future leaders in this field.

Statement of Potential Overlap: N/A

PROJECT/PROPOSAL PENDING SUPPORT

1. Project/Proposal Title: THIS PROPOSAL NSF Engineering Research Center for Integrated Mechanobiology for Women's Health (IMWEL)

Proposal/Award Number (if available):

Source of Support: Columbia University/National Science Foundation

Primary Place of Performance: Washington University, St. Louis, MO

Project/Proposal Support Start Date (if available): 09/2022

Project/Proposal Support End Date (if available): 08/2027

Total Award Amount (including Indirect Costs): \$5,200,000

Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project:

Year	Person-months per year committed
2023	0.5
2024	0.5
2025	0.5
2026	0.5
2027	0.5

Overall Objectives: Informed by biomechanics and mechanobiology research, the NSF Engineering Research Center for Integrated Mechanobiology for Women's Health (IMWEL) will apply engineering innovations to overcome women's health challenges, attracting and training inclusive next generation engineers focused on a women-centered approach.

Statement of Potential Overlap: ****THIS PROPOSAL****

*PI/co-PI/Senior Personnel Name: Joshua Robert Mauney

***Required fields**

Note: NSF has provided 15 project/proposal and 10 in-kind contribution entries for users to populate. Please leave any unused entries blank.

Project/Proposal Section:

Current and Pending Support includes all resources made available to an individual in support of and/or related to all of his/her research efforts, regardless of whether or not they have monetary value.^[1] Information must be provided about all current and pending support, including this project, for ongoing projects, and for any proposals currently under consideration from whatever source^[2], irrespective of whether such support is provided through the proposing organization or is provided directly to the individual. Concurrent submission of a proposal to other organizations will not prejudice its review by NSF, if disclosed.^[3]

Please enter your support entries so they are grouped together based on the "Status of Support" and are in the order of Current, Pending, Submission Planned, and Transfer of Support from top to bottom

^[1] If the time commitment or dollar value is not readily ascertainable, reasonable estimates should be provided.

^[2] For example, Federal, State, local, foreign, public or private foundations, non-profits, industrial or other commercial organizations or internal funds allocated toward specific projects.

^[3] The Biological Sciences Directorate exception to this policy is delineated in PAPPG Chapter II.D.2.

Projects/Proposals

1.*Project/Proposal Title : Development of Silk Fibroin Grafts for Reconstruction of Esophageal Defects

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available): R01 DK107568-01A1

*Source of Support: National Institutes of Health

*

Project/Proposal Start Date (MM/YYYY) (if available): 07/2016

Project/Proposal End Date (MM/YYYY) (if available):

*

*

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1. 2016	4.20	4. 2019	4.20
2. 2017	4.20	5. 2020	4.20
3. 2018	4.20		

2.*Project/Proposal Title : Partial Bladder Outlet Obstruction: Mechanisms of Injury and Novel Repair Strategies

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available): 1 R01DK119240-01A1

*Source of Support: National Institutes of Health

*Primary Place of Performance : University of California, Irvine

Project/Proposal Start Date (MM/YYYY) (if available): 07/2019

Project/Proposal End Date (MM/YYYY) (if available): 06/2024

*Total Award Amount (including Indirect Costs): \$ 1,250,000

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1. 2019	4.20	4. 2022	4.20
2. 2020	4.20	5. 2023	4.20
3. 2021	4.20		

Projects/Proposals

3.*Project/Proposal Title : Drug Eluting Silk Fibroin Grafts for Repair of Long Urethral Strictures

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available): 1 R01 DK131211-01

*Source of Support: National Institutes of Health

*

Project/Proposal Start Date (MM/YYYY) (if available): 09/2021

Project/Proposal End Date (MM/YYYY) (if available):

*

*

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1. 2021	2.40	4. 2024	2.40
2. 2022	2.40	5. 2025	2.40
3. 2023	2.40		

4.*Project/Proposal Title : NSF Engineering Research Center for Integrated Mechanobiology for Women’s Health (IMWEL)

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*Source of Support: Columbia University (Prime: National Science Foundation)

*Primary Place of Performance : UC Irvine

Project/Proposal Start Date (MM/YYYY) (if available): 09/2022

Project/Proposal End Date (MM/YYYY) (if available): 08/2027

*Total Award Amount (including Indirect Costs): \$ 3,690,000

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1. 2023	0.25	4. 2026	0.50
2. 2024	0.50	5. 2027	0.50
3. 2025	0.50		

Projects/Proposals

5.*Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*

*

*Year (YYYY)	*Person Months (##.##)
1.	
2.	
3.	

Person Months (##.##)

5.

6.*Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

Projects/Proposals

7.*Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*

*

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

8.*Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

Projects/Proposals

9. *Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*

*

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

10. *Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

Projects/Proposals

11. *Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*

*

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

12. *Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

Projects/Proposals

13. *Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*

*

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

14. *Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

Projects/Proposals

15.*Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*

*

*Year (YYYY)	*Person Months (##.##)
1.	
2.	
3.	

Person Months (##.##)

5.

In Kind Contributions

*Required fields

In-Kind Contribution Section:

Current and Pending Support also includes in-kind contributions (such as office/laboratory space, equipment, supplies, employees, students). If the in-kind contributions are intended for use on the project being proposed to NSF, the information must be included as part of the Facilities, Equipment and Other Resources section of the proposal and need not be replicated in the individual's Current and Pending Support submission. In-kind contributions not intended for use on the project/proposal being proposed that have associated time obligations must be reported below. If the time commitment or dollar value is not readily ascertainable, reasonable estimates should be provided.

Please enter your support entries so they are grouped together based on the "Status of Support" and are in the order of Current to Pending from top to bottom

1.*Status of Support: Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.			
3.			

*Dollar Value of In-Kind Contribution: \$

In Kind Contributions

2.*Status of Support : Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

*Dollar Value of In-Kind Contribution:\$

3.*Status of Support : Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

*Dollar Value of In-Kind Contribution:\$

In Kind Contributions

4.*Status of Support : Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

*Dollar Value of In-Kind Contribution:\$

5.*Status of Support : Current Pending

*Source of Support :

*

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

*Dollar Value of In-Kind Contribution:\$

In Kind Contributions

6. *Status of Support : Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

*Dollar Value of In-Kind Contribution:\$

7. *Status of Support : Current Pending

*Source of Support :

*

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

*Dollar Value of In-Kind Contribution:\$

In Kind Contributions

8.*Status of Support : Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

*Dollar Value of In-Kind Contribution:\$

9.*Status of Support : Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

*Dollar Value of In-Kind Contribution:\$

In Kind Contributions

10.*Status of Support : Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

*Dollar Value of In-Kind Contribution:\$

NSF CURRENT AND PENDING SUPPORT

PI/co-PI/Senior Personnel: O'Brien, Christine

PROJECT/PROPOSAL CURRENT SUPPORT

- 1. Project/Proposal Title: Wearable laser speckle sensor for postpartum hemorrhage detection

Proposal/Award Number (if available):

Source of Support: Collaboration Initiation Grant in Women's Health, WashU

Primary Place of Performance: Washington University in St. Louis

Project/Proposal Support Start Date (if available): 06/2021

Project/Proposal Support End Date (if available): 05/2022

Total Award Amount (including Indirect Costs): \$20,000

Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project:

Year	Person-months per year committed
2021	0.01
2022	0.01

Overall Objectives: Evaluate wearable laser speckle sensor for early detection of hemorrhage.

Statement of Potential Overlap: No overlap in content.

- 2. Project/Proposal Title: Wearable multifunctional optical device for early detection of postpartum hemorrhage

Proposal/Award Number (if available): K99HD103954

Source of Support: National Institute of Child Health and Human Development

Primary Place of Performance: Washington University in St. Louis

Project/Proposal Support Start Date (if available): 04/2021

Project/Proposal Support End Date (if available): 06/2022

Total Award Amount (including Indirect Costs): \$159,630

Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project:

Year	Person-months per year committed
-------------	-----------------------------------------

Year	Person-months per year committed
2021	11
2022	3

Overall Objectives: Develop and evaluate a wearable optical sensor to track early physiologic responses of postpartum hemorrhage in animal models.

Statement of Potential Overlap: No overlap in content.

PROJECT/PROPOSAL PENDING SUPPORT

1. Project/Proposal Title: THIS PROPOSAL NSF Engineering Research Center for Integrated Mechanobiology for Women's Health (IMWEL)

Proposal/Award Number (if available):

Source of Support: Columbia University/National Science Foundation

Primary Place of Performance: Washington University in St. Louis

Project/Proposal Support Start Date (if available): 09/2022

Project/Proposal Support End Date (if available): 08/2027

Total Award Amount (including Indirect Costs): \$5,200,000

Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project:

Year	Person-months per year committed
2023	1
2024	1
2025	1
2026	1
2027	1

Overall Objectives: Informed by biomechanics and mechanobiology research, the NSF Engineering Research Center for Integrated Mechanobiology for Women's Health (IMWEL) will apply engineering innovations to overcome women's health challenges, attracting and training inclusive next generation engineers focused on a women-centered approach.

Statement of Potential Overlap: ****THIS PROPOSAL****

2. Project/Proposal Title: Develop advanced Raman spectroscopy and imaging systems for

biological and biomedical applications

Proposal/Award Number (if available):

Source of Support: National Institutes of Health

Primary Place of Performance: Washington University in St. Louis

Project/Proposal Support Start Date (if available): 07/2022

Project/Proposal Support End Date (if available): 06/2026

Total Award Amount (including Indirect Costs): \$305,000

Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project:

Year	Person-months per year committed
2022	1
2023	1
2024	1
2025	1

Overall Objectives: Develop novel Raman scattering-based imaging and sensing tools for application in biomedical applications spanning bacteria detection, surgical guidance, and in vivo flow cytometry.

Statement of Potential Overlap: No overlap of content.

3. Project/Proposal Title: Wearable multifunctional optical device for early detection of postpartum hemorrhage

Proposal/Award Number (if available): R00

Source of Support: National Institute of Child Health and Human Development

Primary Place of Performance: Washington University in St. Louis

Project/Proposal Support Start Date (if available): 07/2022

Project/Proposal Support End Date (if available): 06/2025

Total Award Amount (including Indirect Costs): \$750,000

Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project:

Year	Person-months per year committed
2022	3

Year	Person-months per year committed
2023	6
2024	6
2025	3

Overall Objectives: Develop and evaluate a wearable optical sensor to track early physiologic responses of postpartum hemorrhage in pregnant patients.

Statement of Potential Overlap: No overlap in content.

NSF CURRENT AND PENDING SUPPORT

PI/co-PI/Senior Personnel: Oyen, Michelle

PROJECT/PROPOSAL PENDING SUPPORT

1. Project/Proposal Title: THIS PROPOSAL Engineering Research Center for Integrative Mechanobiology for WomEn's HeaLth (IMWEL)

Proposal/Award Number (if available):

Source of Support: Columbia University/National Science Foundation

Primary Place of Performance: Washington University in St. Louis

Project/Proposal Support Start Date (if available): 09/2022

Project/Proposal Support End Date (if available): 08/2027

Total Award Amount (including Indirect Costs): \$5,200,000

Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project:

Year	Person-months per year committed
2023	2
2024	2
2025	2
2026	2
2027	2

Overall Objectives: Informed by biomechanics and mechanobiology research, the NSF Engineering Research Center for Integrated Mechanobiology for Women's Health (IMWEL) will apply engineering innovations to overcome women's health challenges, attracting and training inclusive next generation engineers focused on a women-centered approach.

Statement of Potential Overlap: ****THIS PROPOSAL****

2. Project/Proposal Title: ERI: Mechanics of Fracture in Nanofiber-Hydrogel Composite Materials

Proposal/Award Number (if available):

Source of Support: National Science Foundation

Primary Place of Performance: Washington University in St. Louis

Project/Proposal Support Start Date (if available): 01/2022

Project/Proposal Support End Date (if available): 12/2023

Total Award Amount (including Indirect Costs): \$199,847

Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project:

Year	Person-months per year committed
2022	0.5
2023	0.5

Overall Objectives:

Statement of Potential Overlap: No overlap.

*PI/co-PI/Senior Personnel Name: Itshack Pe'er

***Required fields**

Note: NSF has provided 15 project/proposal and 10 in-kind contribution entries for users to populate. Please leave any unused entries blank.

Project/Proposal Section:

Current and Pending Support includes all resources made available to an individual in support of and/or related to all of his/her research efforts, regardless of whether or not they have monetary value.^[1] Information must be provided about all current and pending support, including this project, for ongoing projects, and for any proposals currently under consideration from whatever source^[2], irrespective of whether such support is provided through the proposing organization or is provided directly to the individual. Concurrent submission of a proposal to other organizations will not prejudice its review by NSF, if disclosed.^[3]

Please enter your support entries so they are grouped together based on the "Status of Support" and are in the order of Current, Pending, Submission Planned, and Transfer of Support from top to bottom

^[1] If the time commitment or dollar value is not readily ascertainable, reasonable estimates should be provided.

^[2] For example, Federal, State, local, foreign, public or private foundations, non-profits, industrial or other commercial organizations or internal funds allocated toward specific projects.

^[3] The Biological Sciences Directorate exception to this policy is delineated in PAPPG Chapter II.D.2.

Projects/Proposals

1.*Project/Proposal Title : Centers for Cancer Systems Therapeutics (CaST)

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available): U54CA209997

*Source of Support: NIH/National Cancer Institute

*

Project/Proposal Start Date (MM/YYYY) (if available): 08/2016

Project/Proposal End Date (MM/YYYY) (if available):

*

*

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1. 2021	1.00	5.
2.		
3.		

2.*Project/Proposal Title : Transition to Metastatic State: Lung Cancer, Pancreatic Cancer and Brain Metastasis - Functional Unit 3

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available): U2CCA233284

*Source of Support: NIH

*Primary Place of Performance : Columbia University, New York, NY

Project/Proposal Start Date (MM/YYYY) (if available): 09/2018

Project/Proposal End Date (MM/YYYY) (if available): 08/2023

*Total Award Amount (including Indirect Costs): \$ 519,554

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1. 2021	0.50	4.	
2. 2022	0.50	5.	

Projects/Proposals

3. 2023	0.50
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Projects/Proposals

3.*Project/Proposal Title : Variational Inference to Reveal Genetic Heterogeneity across Neuropsychiatric Traits

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

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*

Project/Proposal Start Date (MM/YYYY) (if available): 07/2019

Project/Proposal End Date (MM/YYYY) (if available):

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*

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1. 2021	0.10	
2.		5.
3.		

4.*Project/Proposal Title : MIM: Inferring causality in complex microbial communities under perturbation

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*Primary Place of Performance : Columbia University, New York, NY

Project/Proposal Start Date (MM/YYYY) (if available): 09/2021

Project/Proposal End Date (MM/YYYY) (if available): 08/2026

*Total Award Amount (including Indirect Costs): \$ 3,000,000

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1. 2022	1.00	4. 2025	1.00
2. 2023	1.00	5. 2026	1.00
3. 2024	1.00		

Projects/Proposals

5.*Project/Proposal Title : Collaborative Research: SCH: Identifying brain degeneration and cognitive changes via advances in integrative imaging and biomedical data analysis

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

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*

Project/Proposal Start Date (MM/YYYY) (ifavailable) : 10/2021

Project/Proposal End Date (MM/YYYY) (ifavailable) :

*

*

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1. 2022	0.60	4. 2025	0.60
2. 2023	0.60	5.	
3. 2024	0.60		

6.*Project/Proposal Title : (This Proposal) NSF Engineering Research Center for Integrated Mechanobiology for Women’s Health (IMWEL)

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*Primary Place of Performance : Columbia University

Project/Proposal Start Date (MM/YYYY) (if available) : 09/2022

Project/Proposal End Date (MM/YYYY) (if available) : 08/2027

*Total Award Amount (including Indirect Costs): \$ 26,000,000

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1. 2022	0.50	4. 2025	0.50
2. 2023	0.50	5. 2026	0.50
3. 2024	0.50		

Projects/Proposals

7.*Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*

*

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

8.*Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

Projects/Proposals

9. *Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*

*

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

10. *Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

Projects/Proposals

11. *Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*
*

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*
*

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

12. *Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*
*

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

Projects/Proposals

13. *Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*

*

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

14. *Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

Projects/Proposals

15.*Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*

*

*Year (YYYY)	*Person Months (##.##)
1.	
2.	
3.	

Person Months (##.##)

5.

In Kind Contributions

*Required fields

In-Kind Contribution Section:

Current and Pending Support also includes in-kind contributions (such as office/laboratory space, equipment, supplies, employees, students). If the in-kind contributions are intended for use on the project being proposed to NSF, the information must be included as part of the Facilities, Equipment and Other Resources section of the proposal and need not be replicated in the individual's Current and Pending Support submission. In-kind contributions not intended for use on the project/proposal being proposed that have associated time obligations must be reported below. If the time commitment or dollar value is not readily ascertainable, reasonable estimates should be provided.

Please enter your support entries so they are grouped together based on the "Status of Support" and are in the order of Current to Pending from top to bottom

1.*Status of Support: Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.			
3.			

*Dollar Value of In-Kind Contribution: \$

In Kind Contributions

2.*Status of Support : Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

*Dollar Value of In-Kind Contribution:\$

3.*Status of Support : Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

*Dollar Value of In-Kind Contribution:\$

In Kind Contributions

4.*Status of Support : Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

*Dollar Value of In-Kind Contribution:\$

5.*Status of Support : Current Pending

*Source of Support :

*

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

*Dollar Value of In-Kind Contribution:\$

In Kind Contributions

6. *Status of Support : Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

*Dollar Value of In-Kind Contribution:\$

7. *Status of Support : Current Pending

*Source of Support :

*

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

*Dollar Value of In-Kind Contribution:\$

In Kind Contributions

8.*Status of Support : Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

*Dollar Value of In-Kind Contribution:\$

9.*Status of Support : Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

*Dollar Value of In-Kind Contribution:\$

In Kind Contributions

10.*Status of Support : Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

*Dollar Value of In-Kind Contribution:\$

*PI/co-PI/Senior Personnel Name: Valerie Purdie-Greenaway, Ph.D.

***Required fields**

Note: NSF has provided 15 project/proposal and 10 in-kind contribution entries for users to populate. Please leave any unused entries blank.

Project/Proposal Section:

Current and Pending Support includes all resources made available to an individual in support of and/or related to all of his/her research efforts, regardless of whether or not they have monetary value.^[1] Information must be provided about all current and pending support, including this project, for ongoing projects, and for any proposals currently under consideration from whatever source^[2], irrespective of whether such support is provided through the proposing organization or is provided directly to the individual. Concurrent submission of a proposal to other organizations will not prejudice its review by NSF, if disclosed.^[3]

Please enter your support entries so they are grouped together based on the "Status of Support" and are in the order of Current, Pending, Submission Planned, and Transfer of Support from top to bottom

^[1] If the time commitment or dollar value is not readily ascertainable, reasonable estimates should be provided.

^[2] For example, Federal, State, local, foreign, public or private foundations, non-profits, industrial or other commercial organizations or internal funds allocated toward specific projects.

^[3] The Biological Sciences Directorate exception to this policy is delineated in PAPPG Chapter II.D.2.

Projects/Proposals

1.*Project/Proposal Title : Reducing Attrition in STEM Doctoral Education: A Longitudinal Investigation using Momentary Assessment and Social Psychological Intervention

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (ifavailable): HDR-1661214

*Source of Support: National Science Foundation, via Penn State University

*

Project/Proposal Start Date (MM/YYYY) (ifavailable): 05/2017

Project/Proposal End Date (MM/YYYY) (ifavailable):

*

*

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1. 2021	0.50	5.
2. 2022	0.50	
3.		

2.*Project/Proposal Title : DeMISTifying Muslim Youth: A Multi-Method Investigation of Character Values in the Context of the Muslim InterScholastic Tournament

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (ifavailable): BAYLOR32270245-06-CU

*Source of Support: Baylor University / John Templeton Foundation

*Primary Place of Performance : Columbia University, New York, NY

Project/Proposal Start Date (MM/YYYY) (if available): 10/2019

Project/Proposal End Date (MM/YYYY) (if available): 09/2021

*Total Award Amount (including Indirect Costs): \$ 50,000

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1. 2021	0.50	4.	
2.		5.	
3.			

Projects/Proposals

3.*Project/Proposal Title : HDR Institute: The Learner Data Institute - Harnessing The Data Revolution To Make The Learning Ecosystem More Effective, Engaging, and Equitable

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (ifavailable) : 10/2021

Project/Proposal End Date (MM/YYYY) (ifavailable) :

*

*

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1. 2022	1.00	4. 2025	1.00
2. 2023	1.00	5. 2026	1.00
3. 2024	1.00		

4.*Project/Proposal Title : (This Proposal) NSF Engineering Research Center for Integrated Mechanobiology for Women’s Health (IMWEL)

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*Primary Place of Performance : Columbia University

Project/Proposal Start Date (MM/YYYY) (if available) : 09/2022

Project/Proposal End Date (MM/YYYY) (if available) : 08/2027

*Total Award Amount (including Indirect Costs): \$ 26,000,000

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1. 2022	0.50	4. 2025	0.50
2. 2023	0.50	5. 2026	0.50
3. 2024	0.50		

Projects/Proposals

5.*Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*

*

*Year (YYYY)	*Person Months (##.##)
1.	
2.	
3.	

Person Months (##.##)

5.

6.*Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

Projects/Proposals

7.*Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*

*

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

8.*Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

Projects/Proposals

9. *Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*

*

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

10. *Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

Projects/Proposals

11. *Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*

*

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

12. *Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

Projects/Proposals

13. *Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*

*

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

14. *Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

Projects/Proposals

15.*Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*

*

*Year (YYYY)	*Person Months (##.##)
1.	
2.	
3.	

Person Months (##.##)

5.

In Kind Contributions

*Required fields

In-Kind Contribution Section:

Current and Pending Support also includes in-kind contributions (such as office/laboratory space, equipment, supplies, employees, students). If the in-kind contributions are intended for use on the project being proposed to NSF, the information must be included as part of the Facilities, Equipment and Other Resources section of the proposal and need not be replicated in the individual's Current and Pending Support submission. In-kind contributions not intended for use on the project/proposal being proposed that have associated time obligations must be reported below. If the time commitment or dollar value is not readily ascertainable, reasonable estimates should be provided.

Please enter your support entries so they are grouped together based on the "Status of Support" and are in the order of Current to Pending from top to bottom

1.*Status of Support: Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.			
3.			

*Dollar Value of In-Kind Contribution: \$

In Kind Contributions

2.*Status of Support : Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

*Dollar Value of In-Kind Contribution:\$

3.*Status of Support : Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

*Dollar Value of In-Kind Contribution:\$

In Kind Contributions

4.*Status of Support : Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

*Dollar Value of In-Kind Contribution:\$

5.*Status of Support : Current Pending

*Source of Support :

*

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

*Dollar Value of In-Kind Contribution:\$

In Kind Contributions

6.*Status of Support : Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

*Dollar Value of In-Kind Contribution:\$

7.*Status of Support : Current Pending

*Source of Support :

*

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

*Dollar Value of In-Kind Contribution:\$

In Kind Contributions

8.*Status of Support : Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

*Dollar Value of In-Kind Contribution:\$

9.*Status of Support : Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

*Dollar Value of In-Kind Contribution:\$

In Kind Contributions

10. *Status of Support : Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

*Dollar Value of In-Kind Contribution:\$

NSF CURRENT AND PENDING SUPPORT

PI/co-PI/Senior Personnel: Setton, Lori A.

PROJECT/PROPOSAL CURRENT SUPPORT

1. Project/Proposal Title: Research Supplements to Promote Diversity in Health-Related Research (S Neal, trainee)

Proposal/Award Number (if available): R01AR07768

Source of Support: National Institutes of Health

Primary Place of Performance: Washington University in St. Louis

Project/Proposal Support Start Date (if available): 09/2021

Project/Proposal Support End Date (if available): 08/2024

Total Award Amount (including Indirect Costs): \$180,000

Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project:

Year	Person-months per year committed
2021	0.01
2022	0.01
2023	0.01
2024	0.01

Overall Objectives: This supplement will support the trainee, Ms. Sydney Neal, in independent research supporting the goals of the parent grant.

Statement of Potential Overlap: N/A

2. Project/Proposal Title: Intervertebral Disc Degeneration and Cross-Talk with the Nervous System (PIs: Setton/Tang)

Proposal/Award Number (if available): R01AR077678

Source of Support: National Institutes of Health

Primary Place of Performance: Washington University in St. Louis

Project/Proposal Support Start Date (if available): 08/2020

Project/Proposal Support End Date (if available): 07/2025

Total Award Amount (including Indirect Costs): \$4,030,775

Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project:

Year	Person-months per year committed
2021	2.8
2022	2
2023	2
2024	2
2025	2

Overall Objectives: The goal of this study is to understand remodeling of the peripheral and central sensory nervous system in response to an induced intervertebral disc degeneration in a mouse model.

Statement of Potential Overlap: N/A

3. Project/Proposal Title: Intra-articular Delivery of Sustained Release NF-kB Antagonists in Arthritis

Proposal/Award Number (if available): R01AR070975

Source of Support: National Institutes of Health

Primary Place of Performance: Washington University in St. Louis

Project/Proposal Support Start Date (if available): 02/2017

Project/Proposal Support End Date (if available): 01/2023

Total Award Amount (including Indirect Costs): \$1,689,701

Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project:

Year	Person-months per year committed
2021	2
2022	2

Overall Objectives: The goal of this study is to develop silk fibroin-based drug depots for intra-articular delivery of small molecule antagonists of NF- B in the treatment of osteoarthritis. We hypothesize that local and sustained delivery.

Statement of Potential Overlap: N/A

PROJECT/PROPOSAL PENDING SUPPORT

- 1. Project/Proposal Title: THIS PROPOSAL NSF Engineering Research Center for Integrated Mechanobiology for Women's Health (IMWEL)

Proposal/Award Number (if available):

Source of Support: Columbia University/National Science Foundation

Primary Place of Performance: Washington University in St. Louis

Project/Proposal Support Start Date (if available): 09/2022

Project/Proposal Support End Date (if available): 08/2027

Total Award Amount (including Indirect Costs): \$5,200,000

Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project:

Year	Person-months per year committed
2023	0.5
2024	0.5
2025	0.5
2026	0.5
2027	0.5

Overall Objectives: Informed by biomechanics and mechanobiology research, the NSF Engineering Research Center for Integrated Mechanobiology for Women's Health (IMWEL) will apply engineering innovations to overcome women's health challenges, attracting and training inclusive next generation engineers focused on a women-centered approach.

Statement of Potential Overlap: ****THIS PROPOSAL****

- 2. Project/Proposal Title: Development of synthetic extracellular matrix analogs to control cell fate decisions through co-stimulation of integrins and growth factor receptors

Proposal/Award Number (if available):

Source of Support: National Institutes of Health

Primary Place of Performance: Washington University in St. Louis

Project/Proposal Support Start Date (if available): 04/2022

Project/Proposal Support End Date (if available): 03/2027

Total Award Amount (including Indirect Costs): \$2,000,000

Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project:

Year	Person-months per year committed
2022	1
2023	1
2024	1
2025	1
2026	1

Overall Objectives: The goal of this project is to exploit synergistic signaling between growth factor and cell adhesion receptors in order to modulate cell survival and differentiation.

Statement of Potential Overlap: N/A

3. Project/Proposal Title: Use of polymer-peptide system to deliver cells for intervertebral disc regeneration

Proposal/Award Number (if available): R41AR079324

Source of Support: National Institutes of Health

Primary Place of Performance: Biorestorative Therapies

Project/Proposal Support Start Date (if available): 09/2021

Project/Proposal Support End Date (if available): 08/2022

Total Award Amount (including Indirect Costs): \$257,000

Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project:

Year	Person-months per year committed
2022	1.2

Overall Objectives: The goal of this project is to accelerate development of an injectable hydrogel that can be used to deliver stem cell products to the intervertebral disc.

Statement of Potential Overlap: N/A

*PI/co-PI/Senior Personnel Name: Gordana Vunjak-Novakovic

***Required fields**

Note: NSF has provided 15 project/proposal and 10 in-kind contribution entries for users to populate. Please leave any unused entries blank.

Project/Proposal Section:

Current and Pending Support includes all resources made available to an individual in support of and/or related to all of his/her research efforts, regardless of whether or not they have monetary value.^[1] Information must be provided about all current and pending support, including this project, for ongoing projects, and for any proposals currently under consideration from whatever source^[2], irrespective of whether such support is provided through the proposing organization or is provided directly to the individual. Concurrent submission of a proposal to other organizations will not prejudice its review by NSF, if disclosed.^[3]

Please enter your support entries so they are grouped together based on the "Status of Support" and are in the order of Current, Pending, Submission Planned, and Transfer of Support from top to bottom

^[1] If the time commitment or dollar value is not readily ascertainable, reasonable estimates should be provided.

^[2] For example, Federal, State, local, foreign, public or private foundations, non-profits, industrial or other commercial organizations or internal funds allocated toward specific projects.

^[3] The Biological Sciences Directorate exception to this policy is delineated in PAPPG Chapter II.D.2.

Projects/Proposals

1.*Project/Proposal Title : Tissue Engineering Resource Center

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (ifavailable) : 08/2019

Project/Proposal End Date (MM/YYYY) (ifavailable) :

*

*

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1. 2019	3.00	4. 2022	3.00
2. 2020	3.00	5. 2023	3.00
3. 2021	3.00		

2.*Project/Proposal Title : Multi-tissue platform for modeling systemic pathologies

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*Source of Support: National Institutes of Health (DHHS)

*Primary Place of Performance : Columbia University

Project/Proposal Start Date (MM/YYYY) (ifavailable) : 07/2019

Project/Proposal End Date (MM/YYYY) (ifavailable) : 06/2022

*Total Award Amount (including Indirect Costs): \$ 953,980

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1. 2019	1.00	4.	
2. 2020	1.00	5.	
3. 2021	1.00		

Projects/Proposals

3.*Project/Proposal Title : Engineering vascularized cardiac muscle

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available): 01/2013

Project/Proposal End Date (MM/YYYY) (if available): 12/2023

*Total Award Amount (including Indirect Costs): \$ 813,948

*

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1. 2019	0.60	4. 2022	0.60
2. 2020	0.60	5. 2023	0.60
3. 2021	0.60		

4.*Project/Proposal Title : Bioengineering a Chimeric Human Lung

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

National Institutes of Health (NHLBI)

*Primary Place of Performance : Columbia University

Project/Proposal Start Date (MM/YYYY) (if available): 08/2013

Project/Proposal End Date (MM/YYYY) (if available): 06/2023

*Total Award Amount (including Indirect Costs): \$ 842,444

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

*Year (YYYY)	Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1. 2019	0.60	4. 2022	0.60
2. 2020	0.60	5. 2023	0.60
3. 2021	0.60		

Projects/Proposals

5.*Project/Proposal Title : Cancer patient on a chip

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available): 06/2020

Project/Proposal End Date (MM/YYYY) (if available): 05/2025

*Total Award Amount (including Indirect Costs): \$ 522,056

*

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1. 2020	1.80	4. 2023	1.80
2. 2021	1.80	5. 2024	1.80
3. 2022	1.80		

6.*Project/Proposal Title : Modeling, pathogenesis and treatment of idiopathic pulmonary fibrosis

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

* National Institutes of Health (NHLBI)

*Primary Place of Performance : Columbia University

Project/Proposal Start Date (MM/YYYY) (if available): 09/2016

Project/Proposal End Date (MM/YYYY) (if available): 09/2023

*Total Award Amount (including Indirect Costs): \$ 954,800

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

*Year (YYYY)	Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1. 2018	1.00	4. 2021	1.00
2. 2019	1.00	5. 2022	1.00
3. 2020	1.00		

Projects/Proposals

7.*Project/Proposal Title : Nano systems Engineering Research Center for Directed Multiscale Assembly of Cellular Metamaterials with Nanoscale Precision: CELL-MET

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

* National Science Foundation, Boston University

*

Project/Proposal Start Date (MM/YYYY) (if available): 08/2017

Project/Proposal End Date (MM/YYYY) (if available): 07/2022

*Total Award Amount (including Indirect Costs): \$ 250,000

*

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1. 2017	0.25	4. 2020	0.25
2. 2018	0.25	5. 2021	0.25
3. 2019	0.25		

8.*Project/Proposal Title : Columbia training program in stem cell research

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*Primary Place of Performance : Columbia University

Project/Proposal Start Date (MM/YYYY) (if available): 07/2016

Project/Proposal End Date (MM/YYYY) (if available): 06/2021

*Total Award Amount (including Indirect Costs): \$ 273,270

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

*Year (YYYY)	Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1. 2016	0.60	4. 2019	0.60
2. 2017	0.60	5. 2020	0.60
3. 2018	0.60		

Projects/Proposals

9. *Project/Proposal Title : Optogenetic regulation of cardiac arrhythmia using patient-derived IPS cell models

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available): 08/2018

Project/Proposal End Date (MM/YYYY) (if available): 07/2021

*Total Award Amount (including Indirect Costs): \$ 359,866

*

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1. 2018	1.20	5.
2. 2019	1.20	
3. 2020	1.20	

10. *Project/Proposal Title : Engineering a cell replacement therapy for cystic fibrosis

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*Primary Place of Performance : Columbia University

Project/Proposal Start Date (MM/YYYY) (if available): 05/2020

Project/Proposal End Date (MM/YYYY) (if available): 04/2022

*Total Award Amount (including Indirect Costs): \$ 279,948

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1. 2020	0.30	4.	
2. 2021	0.30	5.	
3.			

Projects/Proposals

11. *Project/Proposal Title : Tissue Engineering Resource Center-Treatment of COVID-19 induced acute respiratory distress by inhalation of exosomes

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (ifavailable) : 07/2020

Project/Proposal End Date (MM/YYYY) (ifavailable) :

*

*

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1. 2020	0.12	
2.		5.
3.		

12. *Project/Proposal Title : Human Multi-Tissue Platform to Study Effects of Space Radiation and Countermeasures

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*Source of Support: NASA - The Translational Research Institute for Space Health

*Primary Place of Performance : Columbia University

Project/Proposal Start Date (MM/YYYY) (ifavailable) : 10/2020

Project/Proposal End Date (MM/YYYY) (ifavailable) : 09/2023

*Total Award Amount (including Indirect Costs): \$ 3,299,332

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1. 2020	0.60	4.	
2. 2021	0.60	5.	
3. 2022	0.60		

Projects/Proposals

13.*Project/Proposal Title : (This Proposal) NSF Engineering Research Center for Integrated Mechanobiology for Women’s Health (IMWEL)

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available): 09/2022

Project/Proposal End Date (MM/YYYY) (if available): 08/2027

*Total Award Amount (including Indirect Costs): \$ 26,000,000

*

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1. 2022	0.12	4. 2025	0.12
2. 2023	0.12	5. 2026	0.12
3. 2024	0.12		

14.*Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

Projects/Proposals

15.*Project/Proposal Title :

*Status of Support : Current Pending Submission Planned Transfer of Support

Proposal/Award Number (if available):

*

*

Project/Proposal Start Date (MM/YYYY) (if available) :

Project/Proposal End Date (MM/YYYY) (if available) :

*

*

*Year (YYYY)	*Person Months (##.##)
1.	
2.	
3.	

Person Months (##.##)

5.

In Kind Contributions

*Required fields

In-Kind Contribution Section:

Current and Pending Support also includes in-kind contributions (such as office/laboratory space, equipment, supplies, employees, students). If the in-kind contributions are intended for use on the project being proposed to NSF, the information must be included as part of the Facilities, Equipment and Other Resources section of the proposal and need not be replicated in the individual's Current and Pending Support submission. In-kind contributions not intended for use on the project/proposal being proposed that have associated time obligations must be reported below. If the time commitment or dollar value is not readily ascertainable, reasonable estimates should be provided.

Please enter your support entries so they are grouped together based on the "Status of Support" and are in the order of Current to Pending from top to bottom

1.*Status of Support: Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.			
3.			

*Dollar Value of In-Kind Contribution: \$

In Kind Contributions

2.*Status of Support : Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

*Dollar Value of In-Kind Contribution:\$

3.*Status of Support : Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

*Dollar Value of In-Kind Contribution:\$

In Kind Contributions

4.*Status of Support : Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

*Dollar Value of In-Kind Contribution:\$

5.*Status of Support : Current Pending

*Source of Support :

*

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

*Dollar Value of In-Kind Contribution:\$

In Kind Contributions

6.*Status of Support : Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

*Dollar Value of In-Kind Contribution:\$

7.*Status of Support : Current Pending

*Source of Support :

*

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

*Dollar Value of In-Kind Contribution:\$

In Kind Contributions

8.*Status of Support : Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

*Dollar Value of In-Kind Contribution:\$

9.*Status of Support : Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

*Dollar Value of In-Kind Contribution:\$

In Kind Contributions

10.*Status of Support : Current Pending

*Source of Support :

*Primary Place of Performance :

*Summary of In-Kind Contributions :

Time Commitment - Month(s) (or Partial Person-Months) Committed Per Year

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Person Months (##.##)
1.		5.
2.		
3.		

*Dollar Value of In-Kind Contribution:\$

NSF CURRENT AND PENDING SUPPORT

PI/co-PI/Senior Personnel: Wang, Yong

PROJECT/PROPOSAL CURRENT SUPPORT

1. Project/Proposal Title: Electromyometrial Imaging System Designed for Multi-site Clinical Trial in USA

Proposal/Award Number (if available):

Source of Support: Bill and Melinda Gates Foundation

Primary Place of Performance: Washington University in St. Louis

Project/Proposal Support Start Date (if available): 11/2021

Project/Proposal Support End Date (if available): 10/2024

Total Award Amount (including Indirect Costs): \$2,654,442

Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project:

Year	Person-months per year committed
2021	0.5
2022	2.3
2023	3
2024	2.5

Overall Objectives: Our objective is to develop an EMMI system that is ready for multi-site clinical trials, we aim to develop and integrate the essential hardware and software components into the clinical trial EMMI system, so that it can be easily incorporated and operated independently by clinical researchers and peers at different clinical trial sites.

Statement of Potential Overlap: None

2. Project/Proposal Title: Understanding Uterine Function and How it Relates to Reproductive Health

Proposal/Award Number (if available): INV037302

Source of Support: Bill and Melinda Gates Foundation

Primary Place of Performance: Washington University in St. Louis

Project/Proposal Support Start Date (if available): 11/2021

Project/Proposal Support End Date (if available): 04/2023

Total Award Amount (including Indirect Costs): \$1,036,695

Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project:

Year	Person-months per year committed
2021	0.5
2022	2.3
2023	1

Overall Objectives: The primary objective is to use a novel method - electromyometrial imaging (EMMI) - to quantitatively and objectively measure the myometrial electrical activity underlying uterine peristalsis in each phase of the menstrual cycle in women with normal menses. The proposal will also include comparison of EMMI data in nonpregnant women with regular menstrual cycles, women with oligomenorrhea, and women with abnormal uterine bleeding associated with hormonal contraceptive-induced menstrual changes.

Statement of Potential Overlap: None

3. Project/Proposal Title: The three-dimensional spatiotemporal dynamics of human uterine contractions using electromyometrial imaging (EMMI)

Proposal/Award Number (if available): R01HD104822

Source of Support: NIH

Primary Place of Performance: Washington University in St. Louis

Project/Proposal Support Start Date (if available): 09/2021

Project/Proposal Support End Date (if available): 08/2026

Total Award Amount (including Indirect Costs): \$3,202,856

Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project:

Year	Person-months per year committed
2021	0.6
2022	1.9
2023	2.4
2024	2.4
2025	2.4

Overall Objectives: This project will use a recently developed technology (Electromyometrial Imaging, EMMI) to build the first-ever "normal term atlas" describing the detailed electrophysiology of uterine contractions during normal term labor. In the long term, EMMI holds great potential to monitor labor and test the effectiveness of strategies to reduce labor complications.

Statement of Potential Overlap: None

4. Project/Proposal Title: Noninvasive imaging of human myometrial microstructures and electrical contraction patterns during pregnancy

Proposal/Award Number (if available): 3976

Source of Support: Burroughs Wellcome Fund

Primary Place of Performance: Washington University in St. Louis

Project/Proposal Support Start Date (if available): 06/2021

Project/Proposal Support End Date (if available): 03/2025

Total Award Amount (including Indirect Costs): \$500,000

Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project:

Year	Person-months per year committed
2021	0.63
2022	1.08
2023	1.08
2024	0.24
2025	0.24

Overall Objectives: In this proposal we will (1) develop mEMMI by integrating DBSI with EMMI for uterus imaging in 80 low-risk pregnant women, and characterize their uterine microstructural features and electrical contractions during labor. (2) preliminarily evaluate the longitudinal uterine microstructural changes and electrical contraction patterns during labor in 40 high-risk pregnant women.

Statement of Potential Overlap: None

5. Project/Proposal Title: Interhemispheric Communication and Compensation in Peripheral Nerve Injury

Proposal/Award Number (if available): R01NS114046

Source of Support: NIH

Primary Place of Performance: Washington University in St. Louis

Project/Proposal Support Start Date (if available): 12/2020

Project/Proposal Support End Date (if available): 11/2025

Total Award Amount (including Indirect Costs): \$2,114,436

Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project:

Year	Person-months per year committed
2021	0.6
2022	0.6
2023	1.2
2024	1.2
2025	1.1

Overall Objectives: Our short-term goal is to identify interhemispheric mechanisms that support left hand compensation, and determine whether the mechanisms arise from cortical asymmetry for movement (hand dominance). This will provide the foundation for our long-term goal to develop and target therapies to improve compensation for patients who face challenges to rehabilitation due to chronic right hand impairment.

Statement of Potential Overlap: None

6. Project/Proposal Title: Low-Cost, Portable Electromyometrial Imaging System for Managing Human Labor

Proposal/Award Number (if available): INV005417

Source of Support: Bill and Melinda Gates Foundation

Primary Place of Performance: Washington University in St. Louis

Project/Proposal Support Start Date (if available): 07/2020

Project/Proposal Support End Date (if available): 02/2022

Total Award Amount (including Indirect Costs): \$1,102,505

Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project:

Year	Person-months per year committed
2020	2.4

Year	Person-months per year committed
2021	4.2
2022	0.7

Overall Objectives: The goal of this study is to develop a low-cost, portable EMMI system that can be used to manage labor at a woman's bedside, this will reduce the cost and improve the accessibility of human EMMI.

Statement of Potential Overlap: None

7. Project/Proposal Title: Applying Diffusion Basis Spectrum Imaging to Characterize Human Placenta Immuno-response during normal term and preterm pregnancies

Proposal/Award Number (if available):

Source of Support: NIH

Primary Place of Performance: Washington University in St. Louis

Project/Proposal Support Start Date (if available): 02/2018

Project/Proposal Support End Date (if available): 01/2023

Total Award Amount (including Indirect Costs): \$3,131,814

Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project:

Year	Person-months per year committed
2021	2.74
2022	2.74
2023	0.3

Overall Objectives: The current application proposes to develop a novel, safe, non-invasive, realtime placental immune imaging technique to acquire a dynamic picture of human placental inflammation throughout pregnancy.

Statement of Potential Overlap: None

8. Project/Proposal Title: Quantification of Neuroinflammation in Alzheimer's Disease Using Diffusion Basis Spectrum Imaging

Proposal/Award Number (if available):

Source of Support: NIH

Primary Place of Performance: Washington University in St. Louis

Project/Proposal Support Start Date (if available): 09/2017

Project/Proposal Support End Date (if available): 06/2022

Total Award Amount (including Indirect Costs): \$3,635,217

Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project:

Year	Person-months per year committed
2018	2.8
2019	2.8
2020	2.8
2021	1.8
2022	1.4

Overall Objectives: Diffusion basis spectrum imaging (DBSI) allows for evaluation of grey and white matter microstructure to separate cellular infiltrate (inflammation) from free water (vasogenic edema). We apply DBSI to the evaluation of preclinical and symptomatic Alzheimer's disease.

Statement of Potential Overlap: None

PROJECT/PROPOSAL PENDING SUPPORT

1. Project/Proposal Title: THIS PROPOSAL NSF Engineering Research Center for Integrated Mechanobiology for Women's Health (IMWEL)

Proposal/Award Number (if available):

Source of Support: Columbia University/National Science Foundation

Primary Place of Performance: Washington University in St. Louis

Project/Proposal Support Start Date (if available): 09/2022

Project/Proposal Support End Date (if available): 08/2027

Total Award Amount (including Indirect Costs): \$5,200,000

Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project:

Year	Person-months per year committed
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Year	Person-months per year committed
2023	1
2024	1
2025	1
2026	1
2027	1

Overall Objectives: Informed by biomechanics and mechanobiology research, the NSF Engineering Research Center for Integrated Mechanobiology for Women's Health (IMWEL) will apply engineering innovations to overcome women's health challenges, attracting and training inclusive next generation engineers focused on a women-centered approach.

Statement of Potential Overlap: ****THIS PROPOSAL****

2. Project/Proposal Title: SCH: Wearable System with Multi-modal Sensing and Multi-scale Artificial Intelligence for In-home Maternal, Fetal, and Preterm Birth Monitoring

Proposal/Award Number (if available):

Source of Support: NSF

Primary Place of Performance: Washington University in St. Louis

Project/Proposal Support Start Date (if available): 06/2022

Project/Proposal Support End Date (if available): 05/2026

Total Award Amount (including Indirect Costs): \$1,199,982

Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project:

Year	Person-months per year committed
2022	1
2023	1
2024	1
2025	1

Overall Objectives: We aim to develop a wearable multi-modal sensing system comprising soft sensor patches with hundreds of pixels of recording electrodes, strain sensors, and piezo sensors for noninvasively imaging the uterine electrical and mechanical activities during contractions. The sensor patches will be integrated with a multi-scale embedded and cloud-based artificial

intelligence (AI) framework for motion artifact mitigation and prediction of risky situations.

Statement of Potential Overlap: None

3. Project/Proposal Title: Three-dimensional noninvasive electrophysiology imaging of human uterine peristalsis

Proposal/Award Number (if available): R01HD108637

Source of Support: NIH

Primary Place of Performance: Washington University in St. Louis

Project/Proposal Support Start Date (if available): 04/2022

Project/Proposal Support End Date (if available): 03/2027

Total Award Amount (including Indirect Costs): \$3,881,464

Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project:

Year	Person-months per year committed
2022	2
2023	2.4
2024	2.4
2025	2.4
2026	2.4

Overall Objectives: By using a recently developed imaging technology, electromyometrial imaging (EMMI), to noninvasively obtain 3D electrical activation pattern of UP in women with normal menstrual cycle and endometriosis, this project will generate important new knowledge and may lead to improved strategies in diagnosing, monitoring and treating patients with endometriosis, dysmenorrhea and infertility.

Statement of Potential Overlap: None

4. Project/Proposal Title: Quantitative Endogenous MRI Imaging of Neuroinflammation in AD

Proposal/Award Number (if available): R01AG074909

Source of Support: NIH

Primary Place of Performance: Washington University in St. Louis

Project/Proposal Support Start Date (if available): 12/2021

Project/Proposal Support End Date (if available): 11/2026

Total Award Amount (including Indirect Costs): \$3,881,040

Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project:

Year	Person-months per year committed
2022	1.8
2023	1.8
2024	1.8
2025	1.8
2026	1

Overall Objectives: This project aims to develop and establish a novel compressed sensing-based diffusion MRI technique, diffusion dictionary imaging (DDI), to non-invasively and reliably image neuroinflammation in Alzheimer's disease (AD). The successful development of a quantitative, endogenous DDI biomarker of neuroinflammation will represent a significant technological leap forward and holds significant promise to improve our understanding of the role of neuroinflammation in AD pathogenesis.

Statement of Potential Overlap: None

NSF CURRENT AND PENDING SUPPORT

PI/co-PI/Senior Personnel: West, Harry

PROJECT/PROPOSAL CURRENT SUPPORT

1. Project/Proposal Title: Design-Driven Understanding for Human-AI/Agent Interaction

Proposal/Award Number (if available):

Source of Support: Amazon

Primary Place of Performance: Columbia University

Project/Proposal Support Start Date (if available): 2021/01

Project/Proposal Support End Date (if available): 2022/12

Total Award Amount (including Indirect Costs): \$200,000

Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project:

Year	Person-months per year committed
2021	1
2022	1

PROJECT/PROPOSAL PENDING SUPPORT

1. Project/Proposal Title: NSF Engineering Research Center for Integrated Mechanobiology for Women's Health (IMWEL)

Proposal/Award Number (if available):

Source of Support: National Science Foundation

Primary Place of Performance: Columbia University, New York, NY

Project/Proposal Support Start Date (if available): 2022/09

Project/Proposal Support End Date (if available): 2027/08

Total Award Amount (including Indirect Costs): \$26,000,000

Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project:

Year	Person-months per year committed
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Year	Person-months per year committed
2022	0.5
2023	0.5
2024	0.5
2025	0.5
2026	0.5

2. Project/Proposal Title: IMPLEMENTING REMOTE PATIENT MONITORING TO IMPROVE HYPERTENSION CONTROL IN A PRIMARY CARE NETWORK

Proposal/Award Number (if available):

Source of Support: NIH

Primary Place of Performance: Columbia University

Project/Proposal Support Start Date (if available): 2020/12

Project/Proposal Support End Date (if available): 2025/11

Total Award Amount (including Indirect Costs): \$4,067,260

Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project:

Year	Person-months per year committed
2021	1.2
2022	1.2
2023	1.2
2024	1.2
2025	1.2