

IMWEL

Engineering Research Center
for Integrated Mechanobiology
for Women's Health



A photograph of a woman in a pink lab coat looking at an ultrasound monitor. The monitor displays a blue-toned image of a fetus. The image is framed by a large, light-colored, irregular shape. The background features a pattern of light blue, interconnected circular and line motifs.

Engineering Deans Statements of Commitment

Shih-Fu Chang, Columbia University

James R. Martin, University of Pittsburgh

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Aaron Bobick, Washington University in St. Louis

IMWEL draws talent and partners from across the United States



IMWEL Institutional Assets

- Critical mass of biomechanics and mechanobiology engineering expertise
- Integration with physician/scientists and practitioners at top medical centers
- Research-driven engineering pipeline development strategy led by social scientists
- Partnerships with women's, community, and NGO organizations across the country
- Leading innovation and technology transfer track records
- Empathetic design and team science experts



Columbia University Commitment



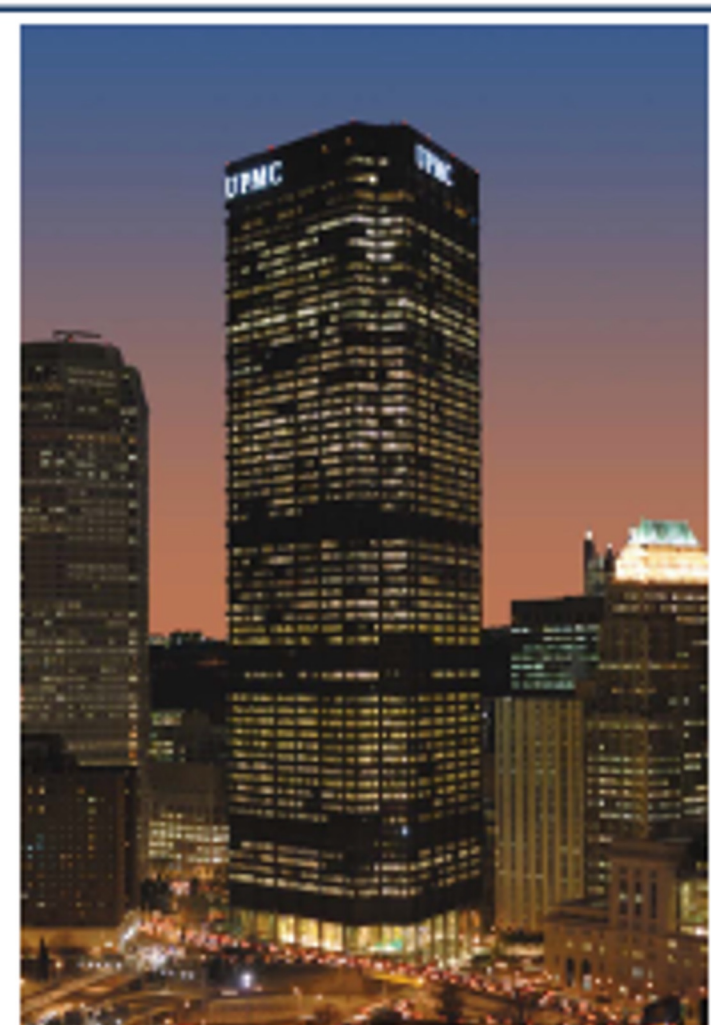
- Leadership in mechanobiology and biomechanics
- Strong partnership between Engineering and Medical Center
- Commitment to *Engineering for Humanity* vision and broad interdisciplinary research
- Leadership in innovation and entrepreneurship
- Track record of increasing the number of women in engineering
- Dedicated Engineering School outreach
- Headquarters and long-term commitment to IMWEL





University of Pittsburgh Commitment

- Tradition: Strong history of engineering innovation
- Engineering + X: Establishing a new culture of developing team-based, transdisciplinary solutions aimed at improving the human condition
- Culture Committed to Women: One of the top engineering schools for the graduation of women PhDs and high percentage of female first-years recruited each year (~35-39 percent)
- Eyes toward underserved communities & the next generation of leaders
- ERC will prototype how to get to the nexus of engineering, medicine, and public health faster



*Transformation From
Industry to Knowledge*

University of California, Irvine Commitment



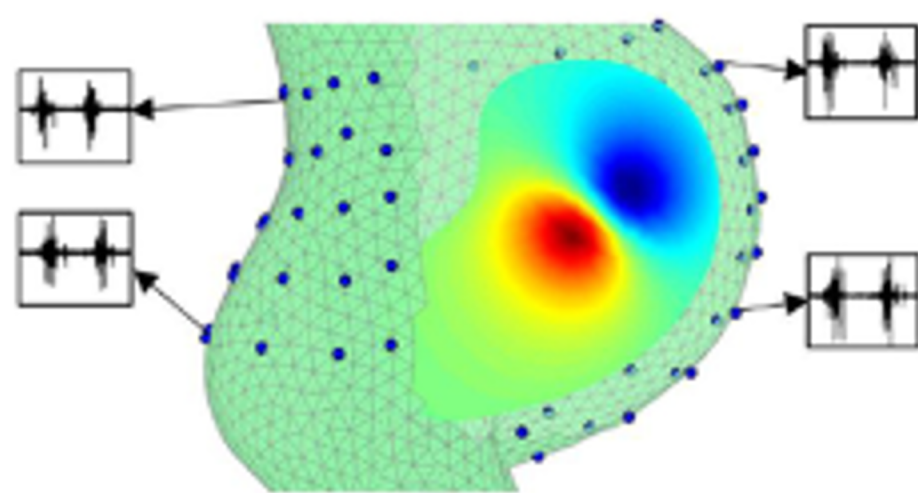
- National leaders in Diversity, Equity, and Inclusion
- Effective team scholarship through the Team Science Acceleration Lab (TSAL)
- Culture of convergence in engineering research
- Resources for women-focused innovation
- Outreach to the Southern California community





Washington University in St. Louis Commitment

- Strategic research focus on Women's Health: Center for Women's Health Technology
- Deep partnerships across Engineering and Obstetrics & Gynecology
- New center supporting Women in Engineering & Technology
- *Equalize* program—women entrepreneurs and investors mentoring women entrepreneurs
- *WU Summer Engineering Fellowships (WUSEF)* promoting research careers for URM students



Women's Health Technologies Initiative



WUSEF 2021

Engineering Deans Statements of Commitment Q&A

