Theoretical and Applied Mechanics (TAM) Graduate Program

TAM is an interdisciplinary, interdepartmental degree-granting graduate program. It involves faculty from various departments, including Civil and Environmental Engineering, Mechanical Engineering, Materials Science and Engineering, Applied Mathematics, and Biomedical Engineering. The TAM group at Northwestern has a distinguished history and enjoys an excellent national and international reputation. We invite you to explore our website at http://www.tam.northwestern.edu to learn more about TAM, our research areas, our world renowned faculty, and how to apply. We are excited about mechanics at NU and we look forward to hearing from you!

Research Areas:

- Multiscale Experimentation
- Computational Science/AI
- Micro/Nanofluidics
- Mechanobiology
- Geomechanics
- Structural Health Monitoring
- Nano and Metamaterials

Why join TAM at Northwestern University?

- Exciting interdisciplinary research programs that put you in the forefront of cutting-edge research and provide you with a solid foundation, enabling you to be highly adaptive after graduation
- Excellent reputation of our faculty (8 National Academy of Engineering members, 4 National Academy of Sciences members, 2 Russian Academy of Engineering foreign members, 4 European Academy of Sciences and Arts fellows, 2 Presidential Medals, and highest number of Timoshenko medalists within US mechanics programs)
- Rich experience of a multi-cultural metropolitan area
- All graduate students are supported on fellowships, research assistantships, and teaching assistantships.

Faculty

Jan D. Achenbach, NAE, NAS, EASA
Oluwaseyi Balogun
Zdenek P. Bazant, NAE, NAS, EASA
Giuseppe Buscarnera
Jian Cao
Wei Chen, NAE
Gianluca Cusatis
Isaac M. Daniel, EASA, EAS, RAE
Stephen H. Davis, NAE, NAS
Horacio D. Espinosa, NAE, EASA, RAE, AAAS, TAM Director
Sandip Ghosal
Yonggang Huang, NAE, NAS, EASA
Leon M. Keer, NAE
Sinan Keten
Sridhar Krishnaswamy
Seth Lichter
Michael Miksis
Julio Ottino, NAE
Wing-Kam Liu
Richard Lueptow
Neelesh A. Patankar
John W. Rudnicki
Igal Szleifer
Petia Vlahovska
Greg Wagner
Jane Wang