

The School of Mechanical Engineering at Purdue University has multiple openings for exceptional faculty candidates at all levels, with interests in both traditional and emerging research areas. An aggressive hiring program over the past two years has resulted in substantial growth of the School and the enhancement of its impact in research, education, and engagement. Now applications are invited for additional tenure-track positions. Exceptional applicants in all specializations relevant to Mechanical Engineering will receive serious consideration.

Faculty expertise is sought in fundamental disciplinary areas including: acoustics, dynamics, vibrations, design, measurements, controls, energy and thermo-fluid transport. **Topical areas of interest include:** the analysis and design of complex systems; multi-scale and multi-physics analysis, design, and experimentation; multi-objective optimization in system and machine design; transformative design paradigms enabled by new manufacturing technologies and the internet of things; the intelligent acquisition of large data and information sets by sensors or other means, and their use in model formulation and verification; synergistic computation and experimentation; and uncertainty quantification. **Application areas of interest include:** manufacturing and materials processing, including nano- and bio-manufacturing; noise and vibration control; non-traditional machine and mechanism design; multi-body dynamical systems; structural health monitoring; engineered biological and biomedical systems; combustion; turbomachinery; propulsion; renewable and sustainable energy systems; advanced energy conversion and power generation systems; and high-performance buildings.

Candidates should hold a Ph.D. degree in Mechanical Engineering or a related field and have a distinguished academic record. A successful candidate will develop a world-class research program, will advise graduate students, will teach both undergraduate and graduate level courses, and will perform service at all levels. While candidates at the Assistant/Associate Professor level are specifically targeted, exceptional candidates at full rank will receive serious consideration. Note that candidates with experience working with diverse groups of students, faculty, and staff and the ability to contribute to an inclusive climate are strongly encouraged to apply.

Interested applicants should use <https://engineering.purdue.edu/Engr/AboutUs/Employment/Applications> to submit their applications on-line. Please indicate specifically the classification in which you want the application to be considered: (i) Mechanics, Acoustics, Systems, and Design; or (ii) Thermo-fluid Systems and Energy. Required materials include curriculum vitae, statement of research and teaching interests, and the names and contact information for at least four (six for appointment at Associate or higher level) professional references. For information/questions regarding applications please contact Ms. Marion Ragland, Faculty Recruitment Coordinator, College of Engineering, at: ragland@purdue.edu. Review of applications will begin November 1, 2014 and will continue until the positions are filled. A background check will be required for employment in this position.

Established in 1882, the School of Mechanical Engineering is the oldest of Purdue's engineering schools and has granted over 27,000 degrees. The School has become synonymous with innovation and outstanding accomplishment in engineering research, education, and global engagement. In addition to supporting faculty expansion, the School's fund raising has enabled the newly-opened, LEED-certified, \$34.5M Roger B. Gatewood Wing of Mechanical Engineering with substantial space dedicated to design research and education; the \$30M LEED-certified expansion of the Ray W. Herrick Laboratories; a planned expansion of facilities at the Maurice J. Zucrow Laboratories; and numerous endowed scholarships and fellowships. Its annual research expenditures and endowment/trust funds have grown rapidly to \$24M per year and over \$80M, respectively.

Purdue's main campus is located in West Lafayette, Indiana, a welcoming and diverse community with a wide variety of cultural activities and events, industries, and excellent schools. Purdue and the College of Engineering have a [Concierge Program](#) to assist new faculty and their partners with dual-career needs and to facilitate their relocation.