

Faculty Positions in the Department of Mechanical and Aerospace Engineering

The Department of Mechanical and Aerospace Engineering (MAE) at the University at Buffalo, State University of New York (SUNY) seeks to fill multiple faculty positions at all ranks in the Department of Mechanical and Aerospace engineering. Senior and mid-career candidates are strongly encouraged to apply. For this hiring cycle:

- 1) Fundamental disciplinary areas of interest include: design, materials, mechanics, aeroelasticity, controls, dynamics, aerodynamics, hypersonics, and fluids.
- 2) Topic areas of interest include: design of/for advanced manufacturing machines and processes, innovative design science for complex processes, products, and systems, bio-inspired systems design, control, and manufacturing, big data analytics in aero/mechanical systems, distributed dynamical cyber-physical systems, robust control of networked systems, robotic and mechatronic systems, wind and alternative energy, micro-aerial-vehicles (MAVs), space situational awareness, multifunctional- and meta-materials, experiments and analysis of manufacturing and materials processing, and the development and characterization of soft and biomaterials.

Applicants are expected to contribute to the core teaching and research missions in MAE. In particular, successful candidates will be expected to develop an independent, externally-funded, internationally-recognized research program, teach core MAE graduate- and undergraduate-level courses, develop new specialized MAE courses, supervise graduate research and contribute to departmental affairs.

The School of Engineering and Applied Sciences at Buffalo is the largest and most comprehensive of the SUNY engineering schools. The MAE Department currently has 29 fulltime faculty and is expected to grow to 40 faculty within the next 3-5 years. Anticipated growth areas include emerging areas of Aerospace Engineering, Advanced Manufacturing, Healthcare, Sustainability, Energy and Environment. Our faculty and students have access to world-class experimental and computational facilities and are active in multidisciplinary research centers housed on campus including the Center for Computational Research, Center for Multisource Information Fusion, The New York State Center for Engineering Design and Industrial Innovation, Toshiba Stroke Research Center, Clinical and Translational Research Center, and off-campus including CUBRC's hypersonics facility, Aerothermal/Aero-optic Evaluation Center.

Applicants must have an earned doctorate in Mechanical or Aerospace Engineering or in a relevant science or engineering discipline with a dissertation in one of the representative department research areas. Applicants should submit a cover letter identifying their primary area of research, curriculum vitae, research statement, teaching statement, and names of at least three references via the UBJobs system, at <http://www.ubjobs.buffalo.edu>, referencing posting number 1400706. **Applicants will need to specify their primary broad area of research from among i) design and manufacturing, ii) dynamics, control, and mechatronics, iii) materials and mechanics, and iv) fluid/thermal sciences.** The evaluation process will start on January 1, 2015 and will continue until the position is filled. For full consideration, please apply on-line before December 31, 2014. Women and other underrepresented minorities are especially encouraged to apply. The University at Buffalo is an Equal Opportunity and Affirmative Action Employer. The School of Engineering is especially interested in candidates who can contribute, through research, teaching, and/or service, to the diversity and excellence of the academic community.