PITT | SWANSON ENGINEERING

MECHANICAL & MATERIALS SCIENCE

Faculty Position in Data-Driven Modeling

Department of Mechanical Engineering and Materials Science
The University of Pittsburgh

The Department of Mechanical Engineering and Materials Science (MEMS) at the University of Pittsburgh (Pitt) invites applications for a tenure track position in the area of **Data-Driven Modeling**. Successful applicants should have the ability to build an externally funded research program, as well as contribute to the teaching mission of the MEMS Department. Applicants should have a PhD or ScD in Mechanical Engineering or a related field. Applicants with outstanding track records at the associate professor and full professor levels are also encouraged to apply, but the focus will be at the assistant professor level.

Expertise is particularly sought in one or more of the following areas: data-driven discovery of dynamical systems; physics-informed machine learning; data-driven predictive modeling; and multi-fidelity analysis. Candidates with research applications in the areas of data assimilation and forecast, PDE-constrained optimization, control and reinforcement learning and modern computational methodologies are especially encouraged. We are seeking candidates who have strong interdisciplinary interests and who can collaborate across engineering disciplines, but have a primary focus on mechanical engineering.

The MEMS Department currently has 30 tenured or tenure-track faculty members who generate over $8 million in annual research expenditures. The Department maintains cutting-edge experimental and computational facilities in its six core research competencies: computational and data-enabled engineering; materials for extreme environments; advanced manufacturing and design; soft matter biomechanics; nuclear and other sustainable energies; and quantitative and *in situ* materials characterization.

The successful candidate for this position will benefit from the resources, support, and a multidisciplinary research environment fostered by many interdisciplinary centers including the University of Pittsburgh's Center for Research Computing (http://www.crc.pitt.edu).

Qualified applicants should submit their applications through Interfolio at the following link: https://apply.interfolio.com/68086. The application should include the following materials in pdf form: a curriculum vitae, a statement of research and teaching plans, and name and contact information of at least three references. Review of applications will begin immediately, and continue until the position is filled.

Candidates from groups traditionally underrepresented in engineering are strongly encouraged to apply. The candidate should be committed to high-quality teaching for a diverse student body and to assisting our Department in enhancing diversity. The Department of Mechanical Engineering and Materials Science fosters an inclusive academic teaching, learning, and research culture that supports the success of its diverse faculty and students. The University of Pittsburgh is an equal opportunity/affirmative action employer.