



**Job Description: Assistant Professor in Computational Materials Discovery and Materials Design**

The Department of Mechanical Engineering (ME) invites applications for a tenure-track faculty position, starting September 1, 2019. Although candidates at the Assistant Professor rank are preferred, candidates with exceptional experience and qualifications may be considered for the rank of Associate Professor.

The Department of Mechanical Engineering (ME) currently enrolls about 1200 students and offers a full range of educational programs, from undergraduate to Ph.D. levels, in the areas of mechanical, bio-, and automotive engineering. A new 123,000 square foot laboratory building is currently under construction at the College of Engineering and Computer Science with planned completion in 2020. The Department has 24 full-time faculty members and expects a period of dynamic growth with active strategic hiring over the next five years.

**Qualifications:**

Applicants must have a Ph.D. in materials science, engineering or a closely-related field, with expertise in computing and algorithm development for materials modeling. While exceptional candidates from all areas of computational material science will be considered, particular attention will be given to candidates with expertise in developing robust multiscale algorithms to bridge time and length scales with a goal of designing and obtaining functional properties of complex materials including biomaterials and/or energy conversion/utilization materials. Examples of algorithms include those to scale from quantum to continuum, track microstructure evolution, include defects, interfaces and boundaries.

The candidate is expected to teach undergraduate and graduate courses in the materials science area, establish a sustainable research program, make significant scholarly contributions to their discipline, be an effective teacher and mentor of both undergraduate and graduate students, and engage in institutional and professional service.

**Applications:**

Applicants should send a letter of intent, curriculum vitae, statements of teaching and research interests, and names and contact information for four references through Interfolio at <https://apply.interfolio.com/56918>.

The review of applications will start on January 1, 2019, but applications will be accepted until the position is filled.

The University of Michigan-Dearborn is an equal opportunity/affirmative action employer.

The University of Michigan conducts background checks on all job candidates upon acceptance of a contingent offer and may use a third party administrator to conduct background checks. Background checks will be performed in compliance with the Fair Credit Reporting Act.