

Tenure-Track or Tenured Faculty Position in Advanced Manufacturing

The High-performance Materials Institute (HPMI) at the Florida State University invites applications for a tenure-track or tenured faculty position in the field of Advanced Manufacturing at the Associate Professor level or close to promotion to that level.

The candidate will be expected to work closely with faculty members of diverse technical backgrounds that currently work at HPMI. The High-Performance Materials Institute is a major multidisciplinary research institute at Florida State University. HPMI is a leading world-class center of excellence for research, education and commercialization in the fields of advanced composites, multifunctional nanomaterials, advanced manufacturing and process modeling and optimization. Currently, HPMI has 17 affiliated faculty members, 5 postdoc fellows and more than 90 students, including 40 PhD students from Industrial and Manufacturing Engineering, Electrical & Computer Engineering, and Materials Science and Engineering. With support from the University and the State, as well as grants from federal and industrial entities, HPMI has developed comprehensive research facilities for advanced composites, nanomaterials and advanced manufacturing as well as quality control and process modeling/optimization. HPMI is housed in the 47,000 ft² Materials Research Building, which contains about 60 equipment items valued at almost \$10M. Currently, HPMI is conducting research on 18 active research projects, 6 of which are NSF sponsored projects including scalable nanomanufacturing (SNM), REU and GOALI projects.

The duties required in this position include teaching and course development in the field of advanced manufacturing and materials processing at both undergraduate and graduate levels. Salary and tenure status will be commensurate with the candidate's qualifications. The anticipated starting date is Fall 2016 or earlier. The potential synergy with the HPMI existing faculty members and associated research centers in research and graduate education will be a critical consideration. The associated centers including the Aerospace, Mechatronics and Energy Center (AME), the Applied Superconductivity Center (ASC), the Center for Advanced Power Systems (CAPS), the Florida Center for Advanced Aero-Propulsion (FCAAP), the National High Magnetic Field Laboratory (NHMFL) and the Energy & Materials Initiative team.

Qualifications: Applicants should possess a PhD degree in the field of industrial and manufacturing engineering, mechanical engineering, material sciences and engineering, and/or electrical/chemical engineering with a focus on advanced manufacturing or a closely related field. Applicants should have two or more years of academic experience with a demonstrated record of generating high-quality publications and attracting external research/industrial grants. We are particularly interested in candidates with an educational and research background in but not limited to the following areas:

- Advanced manufacturing and fabrication of electronics and/or optical materials, lightweight materials, devices and systems for promoting the next generations of aerospace, healthcare and energy products;
- Novel processing methods for assembly of macro, micro and nanoscale devices and systems;
- Manufacturing automation and flexible manufacturing involving robotics, novel sensing, and/or processing and quality control technologies for nanomaterials, energy materials and devices;
- Clean, energy-efficient, and sustainable manufacturing and/or digital manufacturing.



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All applications must be follow the instructions provided at <http://research.fsu.edu/ads/strategic-faculty-recruitment>.