Appointment Type: Faculty

Job Description:
The Department of Materials Science and Engineering (MSE), in the College of Engineering at Iowa State University (ISU), invites applications for the position of tenure-track Assistant Professor in biomaterials and biomedical application areas. Exceptional candidates with commensurate experience and proven track record will be considered for tenure and advanced rank of Associate and Full Professor.

Candidates can have experience in experimental, computational, or clinical research related to synthesis, structure, properties, and performance of soft/cellular materials and tissues, hard/soft material interfaces, prosthetic implants or device materials, and biomimetic structures.

Successful candidates will be expected to establish, sustain, and grow a world-class externally funded research program that complements or aligns with the department’s areas through independent and collaborative efforts. Additionally, the candidate is expected to establish a record of scholarship at the highest levels, contribute to the teaching missions at the undergraduate and graduate levels, and engage in institutional service and service to the profession. Candidates should have strong communication skills, share our commitment to enhancing excellence through diversity and inclusion, and exhibit the potential for long-term leadership in supporting the mission of the department, college, and university.

The Department of Materials Science and Engineering is committed to sustaining a collegial, positive, and productive environment for each individual and for the collective benefit of all. All faculty members are expected to exhibit and convey good citizenship within department, college, and university activities, interact collegially and maintain the highest standards of integrity and ethical behavior.

Minimum Required Qualifications:
- Ph.D. or equivalent degree in materials science and engineering or a closely aligned field
- Associate Professor candidates must also meet the university standards for appointment to the rank including significant experience/accomplishments in the candidate’s area of expertise
- Full Professor candidates are required to have national distinction, international recognition, and a substantial scholarly record in their area of expertise in addition to the aforementioned requirements

Preferred Qualifications:
- B.S. and/or M.S. in materials science and engineering, biomedical engineering, or a closely related field.
- Demonstrated track record of published research in the field of materials science and engineering.
- University-level teaching experience, including undergraduate and graduate levels, especially in the topical areas described above.
- Experience in supervising and mentoring graduate and undergraduate students in research.
- Industrial collaborations/experience in a related materials area.
- Demonstrated experience in diversity, equity and inclusion.

Department/Program & College Description:
About the Materials Science and Engineering Department
The Department of Materials Science and Engineering has 24 faculty members, including members of the National Academy of Engineering, a Nobel Prize winner, and three members of the National Academy of
Inventors. The department currently has about 200 undergraduate students and about 55 graduate students. Sponsored research expenditures of the department are over $13M per year.

The candidate will have opportunities to engage in significant interdisciplinary collaborations on the Iowa State University campus. Collaborative options include Ames Laboratory (www.ameslab.gov) and its Sensitive Instrument Facility, the Materials Preparation Center, and the Critical Materials Institute, the Center for Nondestructive Evaluation (www.cnde.iastate.edu); the Center for Advanced Nonferrous Structural Alloys (https://canfsa.org); the Nanovaccine Institute (https://www.nanovaccine.iastate.edu/); the National Science Foundation Engineering Research Center for Biorenewable Chemicals (www.cbirc.iastate.edu); the Bioeconomy Institute (www.biorenew.iastate.edu); the ISU Office of Biotechnology (www.biotech.iastate.edu); the Microelectronics Research Center; and the College of Veterinary Medicine (https://vetmed.iastate.edu/).

The MSE department and College of Engineering are committed to diversity, equity, and inclusivity that permeate its culture. Successful candidates will have an equal commitment to and appreciation for how diversity, equity, and inclusivity foster innovation. Candidates from underrepresented backgrounds in science and engineering are strongly encouraged to apply.

About Iowa State University and the Ames Community
Iowa State University is classified as a Carnegie Foundation Doctoral/Research University-Extensive and is ranked by U.S. News and World Report as one of the top public universities in the nation. More than 30,000 students are enrolled and are served by over 6,200 faculty and staff. The College of Engineering consists of eight departments with annual research expenditures exceeding $105 million.

Iowa State University is located in the city of Ames, IA a progressive community of 66,000, located approximately 30 minutes north of Des Moines one of the fastest-growing metro areas in the Midwest, and is beaming with community pride and accolades.

Iowa State University is a global and culturally diverse university committed to providing an inclusive, equitable, and diverse environment for both learning and employment. We know that diversity in experience and perspective is vital to advancing innovation, critical thinking, solving complex problems, and building an inclusive academic community. At Iowa State, we translate these values into action by seeking individuals who have experience working with diverse students, colleagues, and constituents. The university has an expectation that all employees will demonstrate a contribution to diversity and inclusion as embodied in Iowa State University’s Principles of Community.

Iowa State University and the College of Engineering are responsive to the needs of dual-career couples and are dedicated to work-life balance through an array of flexible work policies.

Department Unit/Website:
For more information about our department’s engineering program, see https://www.mse.iastate.edu

Proposed Start Date: August 16, 2023
Number of Months Employed Per Year: 09 Month Work Period
Time Type: Full time

Application Instructions:

Applications will be accepted until the position is filled. However, to receive full consideration, applications should be received by September 1st, 2022. All interested, qualified persons must apply for this position online at http://jobs.iastate.edu/ to Job Requisition Number R9039.

The following documents are required to be submitted in PDF format:
1) Letter of application (including information about desired rank) that briefly discusses how the candidate meets each of the preferred qualifications
2) Curriculum Vitae
3) Contact information for at least three references, including name, mailing address, email address, phone number, and other pertinent information
4) Other documents combined into one PDF:
   • One-page teaching statement
   • One-page research statement
   • One-page statement of experiences promoting diversity and inclusion, which could include advocacy, support, study, and experience with individuals and issues outside the candidate’s personal background

Direct questions to Professor Richard LeSar at lesar@iastate.edu or call 515-294-1841.

Job Requisition Number: R9039