

Assistant Professor - Semiconductor Device Design and
Integrated Circuit Design, Smart Grid Tech
University of Massachusetts, Lowell

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Posted Nov. 8, 2023, set to expire Nov. 15, 2024

Job Title	Assistant Professor - Semiconductor Device Design and Integrated Circuit Design, Smart Grid Tech
Department	Electrical & Computer Eng
Institution	University of Massachusetts, Lowell Lowell, Massachusetts
Date Posted	Nov. 8, 2023
Application Deadline	Open until filled
Position Start Date	September 2024
Job Categories	Assistant Professor
Academic Field(s)	Electrical and/or Electronics Computer Engineering
Apply Online Here	https://explorejobs.uml.edu/en-us/job/521330/tenuretrack-assistant-professor-semiconductor-device-design-and-integrated-circuit-design-or-smart-grid-technology-electrical-engineering

Apply By Email

Job Description

The Francis College of Engineering is searching for outstanding candidates for a tenure-track Assistant Professor in Electrical and Computer Engineering with expertise in semiconductor device design and integrated circuit design, or Smart Grid Technology.

The college includes 120 faculty members, 30% of whom are women, and has just under 3,000 undergraduate and over 1,000 graduate students. The University serves the multicultural population of the Commonwealth and has been nationally recognized for its commitment to diversity by the American Society for Engineering Education and is also a Minority Serving Institution (MSI). UMass

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Lowell is a Carnegie Doctoral High Research (RU/H) university ranked in the top tier of US News' National Universities. The College has bachelor's, master's and, doctoral degree programs in all departments. **The appointment is scheduled to begin September 2024.**

The campus is situated on the banks of the Merrimack River, a beautiful and culturally diverse area, and the birthplace of America's industrial revolution. Cotton mills in Lowell, the only city to be awarded national park status by the U.S. National Park Service, opened in 1814, and the city has been a hub of invention and innovation ever since. UML continues that legacy of innovation throughout the campus. Its location 30 miles northwest of Boston offers unsurpassed enrichment of every type, including fine arts, dining, historical sites, and of course sports! Just north of Lowell, the grandeur of New Hampshire's White Mountains unfolds not far from the storied ski lodges of Vermont.

This new faculty will have opportunities to collaborate in research and teaching with faculty across our six departments. We value excellence and innovation in curriculum design and courses that promote experiential learning and professional skills for our students.

Minimum Qualifications (Required):

- Applicants must have earned a doctoral degree in Electrical Engineering, Computer Engineering, Physics, Material Science or a closely related discipline.

For this tenure-track position in Electrical and Computer Engineering, we seek candidates at the Assistant Professor level with expertise in one or more of the following areas:

- Novel semiconductor device design and manufacturing
- Emerging semiconductor devices
- Integrated circuits (digital, analog, mixed signal, RF & millimeter-wave, and photonic) for applications such as high power and high-speed electronics, RF, and microwave power devices
- Quantum devices and systems, neuromorphic and in-memory computing, and optoelectronics
- Smart Grid Technology including control, communication, security, synchronization, and design

Preferred Qualifications:

- Record of successful teaching experience at the college level
- Demonstrated excellence in research and publication
- Postdoctoral research and previous experience working with industry

Additional Considerations:

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- Commitment to develop and sustain a robust externally funded research program
- Dedication to teaching undergraduate and graduate levels in Electrical and Computer Engineering
- The ability to work effectively with diverse groups
- Candidates with experience in engineering education and design of effective and inclusive pedagogical approaches will be given strong consideration

The University of Massachusetts Lowell is committed to increasing diversity in its faculty, staff, and student populations, as well as in curriculum and support programs, while promoting an inclusive and nurturing environment. We seek candidates who can contribute to this goal and encourage candidates to apply and to identify their strengths in these areas. All applicants must submit a diversity statement (see below).

Special Instructions to Applicants:

Review of applications will begin immediately and continue until the position is filled. However, the position may close when an adequate number of qualified applications is received.

Please include the following required documents with your application:

- Curriculum Vitae
- Cover Letter
- Research Statement
- Teaching Statement/Philosophy
- Publications in peer-reviewed journals (three significant, relevant publications). Please upload publications as a single file.
- Diversity Statement: In this statement, please describe how you can support UMass Lowell's commitment to diversity, equity, inclusion, justice, and belonging. Describe how your teaching, service, research, and/or leadership (as applicable) has supported the success of students and/or colleagues, and/or describe the impact others have had on you as relating to DEI and your plans for supporting DEI.
- Names and contact information of three professional references will be required during the application process.

EEO/AA Policy

The University of Massachusetts Lowell is an Equal Opportunity/Affirmative Action, Title IX employer. All qualified applicants will receive consideration for employment without regard to race, sex, color,

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religion, national origin, ancestry, age over 40, protected veteran status, disability, sexual orientation, gender identity/expression, marital status, or other protected class.

Contact Information

Please reference Academickeys in your cover letter when
applying for or inquiring about this job announcement.

Contact

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