

**Professor – Tenure System (1002030)**  
**Michigan State University**

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Downloaded On: Dec. 21, 2024 11:08pm

Posted Nov. 15, 2024, set to expire Mar. 17, 2025

<b>Job Title</b>	Professor – Tenure System (1002030)
<b>Department</b>	Department of Electrical and Computer Engineering
<b>Institution</b>	Michigan State University East Lansing, Michigan
<b>Date Posted</b>	Nov. 15, 2024
<b>Application Deadline</b>	Open until filled
<b>Position Start Date</b>	Available immediately
<b>Job Categories</b>	Professor
<b>Academic Field(s)</b>	Electrical and/or Electronics Computer Engineering Computer Science
<b>Apply Online Here</b>	<a href="https://careers.msu.edu/en-us/job/521148/astascfull-professor-tenure-system">https://careers.msu.edu/en-us/job/521148/astascfull-professor-tenure-system</a>
<b>Apply By Email</b>	
<b>Job Description</b>	

**Professor – Tenure System**

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Other titles/ranks: **Assistant Professor, Associate Professor, Professor**

1 position

**Snapshot**

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The Department of Electrical and Computer Engineering (ECE) is seeking applications for a tenure-system faculty position in the area of Power Electronics.

### Position Summary

The College of Engineering at Michigan State University (MSU) invites applications for a tenure-system faculty position in the Department of Electrical and Computer Engineering (ECE) in the area of Power Electronics. We encourage applications for appointment at the rank of Assistant Professor and will consider exceptional candidates for appointment at the rank of Associate or (Full) Professor.

Candidates must have an earned PhD in Electrical Engineering, or a closely related discipline at the time of appointment, with an anticipated start date of August 16, 2025. The successful candidate will be expected to develop a sustainable, externally funded, and internationally recognized research program; contribute significantly to their discipline through scholarly work; demonstrate effective teaching and mentorship of both undergraduate and graduate students; participate in institutional and professional service; and support the university's mission in advancing diversity, equity, and inclusion. Candidates are encouraged to discuss how their research could have an impact and complement the existing strengths within the department.

All areas of research specialization will be considered, but the following areas have been identified as being of particular interest:

- Modeling, characterization, packaging, and integration of wide band gap (WBG) devices
- Design, optimization, and advanced control of power converters
- Reliability, diagnostics, and fault analysis of power converters
- Wireless power transfer systems
- Modulations strategies in electric drives

Other qualifications include strong leadership and interpersonal skills, excellent written and oral communication skills, an ability to work in a collaborative research environment, and a commitment to promoting and embracing diversity. Joint appointments with other engineering departments are

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possible, considering existing strengths and capabilities and the candidate's preferences. Successful candidates will be appointed to an academic-year position in the tenure system, with tenure, if appropriate. Successful candidates are expected to elevate the reputation of MSU through their professional activities. Those who conduct research that enhances or is related to aspects of inclusion and equity are of high interest.

### Required Application Materials

Interested individuals should apply for this position through <http://careers.msu.edu> and refer to posting #1002030. The application must include the following materials:

1. A detailed CV
2. A cover letter summarizing your qualifications
3. A one-page teaching vision statement
4. A one-page research vision statement
5. A one-page diversity, equity, and inclusion (DEI) vision statement, which should include:
  - Your awareness and education in DEI
  - Examples of your work in DEI
  - Assessment and outcomes of your DEI work
  - Demonstrated impact of your efforts

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Names and contact information for at least three professional references

In your application, please describe the potential impact of your work and how it aligns with the existing strengths of the Department, College, or other programs at MSU.

### **Special Instructions to Applicants**

Review of applications will begin on 12/16/2024, and continue until the position is filled. Data indicates a paucity of underrepresented minorities and women faculty in Electrical and Computer Engineering (ECE); individuals from these groups are strongly encouraged to apply. Questions about this position are welcome and should be directed to the search committee chair by email at [power-electronics@egr.msu.edu](mailto:power-electronics@egr.msu.edu).

### **Department Statement**

The Department of Electrical and Computer Engineering has strong interdisciplinary research and educational programs on a foundation of core electrical and computer engineering disciplines and provides first-class education while engaging in research at the frontiers of knowledge. The Department has 44 faculty members, including 14 IEEE Fellows, 14 NSF CAREER, 3 DARPA YFA, one AFOSR YIP awardee, and four University Distinguished Faculty members. The Department has strong research programs in all major areas of electrical and computer engineering, with annual research expenditures of over \$19 million. Faculty in the Department are leading several federal and industry-supported centers including the Fraunhofer USA Center Midwest (CMW) for Coatings and Diamond Technologies. The Department has accredited B.S. degree programs in both Electrical Engineering and Computer Engineering. The current enrollment is approximately 200 full-time graduate students and over 900 undergraduate students. For additional information about the ECE Department please visit <https://ece.msu.edu/>

### **About The College of Engineering**

Advancing, disseminating, and applying engineering knowledge has been the focus of the MSU College of Engineering for more than 130 years. The mission of the MSU College of Engineering is to deliver the highest-quality engineering graduates, cutting-edge research, and innovative technology to benefit society locally and globally. The college carries out its mission through educational and research programs over eight departments tackling interdisciplinary themes such as computational sciences, energy, health, manufacturing, materials, mobility, security, and sustainability, with research expenditures totaling \$60 million annually. Research is highly interdisciplinary and collaborative, with themes spanning eight departments in the college and an extensive network of collaborators in other colleges and research organizations. The departments and college have strong track records of

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mentoring junior faculty to grow their academic careers successfully.

The College of Engineering is dedicated to building a diverse and inclusive workforce that reflects the rich diversity of our global society while upholding the high standards of Michigan State University. We encourage applications from individuals of all backgrounds and perspectives, including but not limited to women, underrepresented racial and ethnic groups, individuals with disabilities, protected veterans, members of the LGBTQ+ community, and others who bring unique experiences. Your diverse insights and contributions are essential to our college's ongoing growth and pursuit of excellence.

### **About Michigan State University**

MSU is an R1 university that enjoys a park-like campus with some outlying research facilities and natural areas. The campus is in the city of East Lansing, adjacent to the capital city of Lansing. The Lansing metropolitan area has a diverse population of approximately 541,000. Local communities have excellent school systems and place a high value on education. Michigan State University is proactive in exploring employment opportunities for dual-career couples inside and outside the University.

### **MSU Statements**

*Michigan State University has been advancing the common good with uncommon will for more than 160 years. One of the top research universities in the world, MSU pushes the boundaries of discovery and forges enduring partnerships to solve the most pressing global challenges while providing life-changing opportunities to a diverse and inclusive academic community through more than 200 programs of study in 17 degree-granting colleges.*

*All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, citizenship, disability or protected veteran status.*

### **Required Degree**

Candidates must have an earned PhD in Electrical Engineering, or a closely related discipline.



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**Contact Information**

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

**Contact**

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