



**DEPARTMENT:** Electrical and Computer Engineering

**POSITION TITLE:** GE EPISCenter Professor in Aerospace Electrical Power Systems

**POSITION IS:** Full-time/ 9 month contract

**POSTING DATE:** September 28, 2017

**REVIEW OF APPLICATIONS:** October 28, 2017 (Open until filled)

**EXPECTED START DATE:** January 1, 2018

The Department of Electrical and Computer Engineering (ECE) at the University of Dayton invites applications for the GE EPISCenter Professor in Aerospace Electrical Power Systems. This tenured position is partially supported by the General Electric Electrical Power Integrated Systems Center (GE EPISCenter), a new \$53 million research center, which opened in December 2013 on our campus. The EPISCenter is the headquarters for GE Aviation's Electrical Power Systems business. The successful candidate will lead a research team in collaboration with the GE EPISCenter and will expand our academic program in areas relating to electrical power systems. The GE EPISCenter Professor is expected to forge partnerships with government laboratories and with local industry to secure funded research from federal agencies and industry and will establish a consortium on aerospace electrical power and power electronics to advance the regional, national and international stature of the University in this field.

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For appointment at the rank of Associate Professor the successful candidate will possess an established record of scholarship and funded research commensurate with that rank. For appointment at the rank of Full Professor the successful candidate will possess an established record of scholarship that demonstrates authoritative contributions to their discipline and an established record of competitively funded and individually directed research. The successful candidate will have a strong research agenda in at least two of three areas of interest: Electrical Power Systems, Power Electronics, and Electrical Machines, will possess an undergraduate degree in Electrical Engineering or a related field, and a doctorate in engineering, with evidence of effective teaching in their research area. Because of the need for collaborations with the GE EPISCenter and U.S. government agencies, and the need to access research facilities, U.S. citizenship or permanent resident status is required.

Leadership experience in an academic or industry research environment as well as evidence of effective mentoring of a diverse population of students, experience of academic course and program development is desired. Knowledge of materials science is also preferred. The successful candidate should have strong written and oral communication skills.

The department currently has 13 fulltime faculty, 320 undergraduate students, 100 master's students, and 70 doctoral students. The ECE department has three centers of excellence including the CETRASE (Center of Excellence for Thin-Film Research and Surface Engineering), the Mumma Radar Lab (a center of excellence for distributed sensing, and the Vision Lab (a center of excellence for computer vision). The University of Dayton (UD), and the University of Dayton Research Institute (UDRI), generated \$117 million in research in 2016. The Sensor Technology Office of UDRI works very closely with ECE faculty on a large number of research projects. UD is ranked first among all Catholic universities for sponsored engineering research and second among all colleges and universities in the nation in materials research. The University of Dayton is also home to a new \$30 million Emerson Innovation Center, which opened in March 2016. Additionally, Dayton is the home of Wright Patterson Air Force Base (WPAFB), where the largest U.S. Air Force research laboratory is located and is a significant source of research collaboration and funding for many faculty in the ECE department.

For a full list of qualifications and to apply, please go to: <http://jobs.udayton.edu/postings/24402>. A cover letter; a curriculum vitae; a teaching statement including evidence of teaching effectiveness and curricular innovation; a detailed research plan; and the names and contact information of four references are required for submission. Review of applications will begin on October 20<sup>th</sup> 2017, and continue until the position is filled. UD offers a competitive salary, attractive fringe benefits and a generous start-up package.

The University of Dayton, founded in 1850 by the Society of Mary, is a top ten Catholic research university. The University seeks outstanding, diverse faculty and staff who value its mission and share its commitment to academic excellence in teaching, research and artistic creativity, the development of the whole person, and leadership and service in the local and global community. To attain its Catholic and Marianist mission, the University is committed to the principles of diversity, inclusion and affirmative action and to equal opportunity policies and practices. As an Affirmative Action and Equal Opportunity Employer, we will not discriminate against minorities, females, protected veterans, individuals with disabilities, or on the basis of sexual orientation or gender identity.