

DEPARTMENT: Electrical and Computer Engineering
POSITION TITLE: Faculty of Practice (Non-tenure track)
POSITION IS: Full-time/ 9 month contract
POSTING DATE: August 16, 2017
CLOSING DATE: October 1, 2017
EXPECTED START DATE: January 1, 2018

The Department of Electrical and Computer Engineering (ECE) at the University of Dayton invites applications for the position of Faculty of Practice. Shared support for this non-tenured position comes from the School of Engineering, the Electrical & Computer Engineering Department and the Innovation Laboratory, all part of the University of Dayton.

The Faculty of Practice will promote growth in our undergraduate and graduate students interested in Biomedical Engineering. The successful candidate will promote and assist in soliciting new research contracts, increasing research productivity (publications, theses, dissertations, citations of publications, patents, etc.), contributing to curricular development activities (new courses at both graduate and undergraduate levels), and providing service to UD, UDRI, industry, government, and society. The Faculty of Practice is expected to forge partnerships with government laboratories and with local industry to secure funded research from federal agencies and industry. Furthermore, the Faculty of Practice will support ECE collaboration with the Bioengineering program in the Chemical & Materials Engineering Department as well as Mechanical & Aerospace Engineering Department and will enhance the reputation of the department of ECE, School of Engineering and the University of Dayton.

The successful candidate will possess an undergraduate degree in Electrical Engineering or a related field such as Biomedical Engineering, and have an earned Ph.D. awarded in engineering. The successful candidate will specialize in the areas of biomedical image processing, brain signal processing, biosensors or a closely related area. The candidate will show evidence of effective teaching in their research area; articulate a strong research agenda in these research areas; and have an established record of research and scholarship. Because of the need for collaborations with U.S. government agencies, and the need to access research facilities, U.S. citizenship or permanent resident status is required. The successful candidate will also have a strongly articulated commitment to teaching Electrical Engineering courses at the undergraduate and graduate levels and to mentoring undergraduate and graduate students. Candidate must have excellent written communication skills.

Desirable qualifications include leadership experience in an academic or industry research environment along with evidence of effective mentoring of a diverse population of students and staff. Experience in academic course and program

development and excellent oral communication skills is also desired. For a complete list of preferred qualifications please go to the link below.

For a complete list of qualifications and to apply, please go to:

<http://jobs.udayton.edu/postings/24043> . A cover letter; including statements in support of the candidate's qualifications for the required and preferred attributes for this position are required for submission. A curriculum vitae, a teaching statement including evidence of teaching effectiveness, a detailed research plan and the names and contact information of four references are also required for submission. Applications must be received by October 1st 2017. UD offers a competitive salary, attractive fringe benefits and a generous start-up package.

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.

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.