

Department of Electrical and Computer Engineering

Tenure-Track Assistant Professor in Microsystems and MEMS



Position # 001889TT-2017-ECE-SPF50-34

The University of Windsor's Department of Electrical and Computer Engineering (ECE) invites applications for a tenure-track Assistant Professor position in the area of Microsystems and MEMS, commencing July 1, 2017. This position is subject to final budgetary approval.

This position is one of 50 new tenure-track Assistant Professor appointments that the University of Windsor is making over three years as part of a visionary strategic investment in our students and faculty. This cohort of 50 new teachers, scholars, researchers, and creators will demonstrate both disciplinary grasp and interdisciplinary reach, providing extraordinary leadership in research, teaching, and learning for a new generation. For more information on the 50 new appointments, visit us at www.uwindsor.ca/50newprofs.

The successful candidate must have research interests in design and fabrication of microelectronics with demonstrated expertise in a number of following areas: micro-sensors and micro-actuators, micro fabrication and packaging technologies, RF-MEMS, system-on-chip, imaging systems, power sources and energy harvesting. The Faculty would be particularly interested in applicants with primary research interest in any of the above areas complemented with secondary interest in biomedical or mechatronics engineering applications.

The successful candidate is expected to engage in undergraduate and graduate teaching in the ECE Department. He/she will seek external funding, supervise graduate students and offer graduate courses, engage in departmental and university service activities.

Individuals with an undergraduate degree and a Ph.D. in Electrical Engineering or a closely related field with a demonstrated potential for scholarly research, as well as a commitment to undergraduate/graduate teaching are encouraged to apply. Registration or eligibility to register as Professional Engineer in the Province of Ontario is required. This normally requires an undergraduate degree in Engineering from an accredited/recognized university.

Application Requirements

- a letter of application, including a statement of citizenship/immigration status;
- a detailed and current curriculum vitae;
- a concise statement of teaching and research interests;
- a sample of published research papers;
- a teaching dossier or teaching portfolio showing evidence of teaching effectiveness and excellence that will include sample course syllabi/outlines, teaching evaluations, and a statement of teaching philosophy and interests (resources and templates for completing a teaching dossier can be found at www.uwindsor.ca/ctl/links-pd), and;
- **four (4) names and addresses of potential referees who could provide letters of reference.**

The Faculty of Engineering, with over 1700 undergraduate and over 900 graduate students, is a thriving program within the University with strong connections to the community and industry. Faculty of Engineering offers multi-faceted programs that tackle real-world problems, interacts with local industry, and provides its students with ample opportunities for hands-on experience. The Faculty of Engineering has a strong commitment to high quality research and in its new \$120M home, the Ed Lumley Centre for Engineering Innovation (CEI), offers an excellent environment for teaching and research. The new cleanroom in CEI allows for cutting edge research in the areas of micro and nanotechnology. The current and future capabilities of the cleanroom include: different types of physical vapor deposition techniques (PVD), such as: E-beam evaporation, reactive E-beam evaporation, thermal evaporation, DC sputtering, RF sputtering, reactive sputtering, chemical vapor deposition techniques (CVD), such as LPCVD and PECVD, thin film characterization, automated mask alignment system, wafer bonding, ICP DRIE including Bosch process, isotropic and anisotropic wet etching processes, chemical mechanical polishing (CMP), scanning electron microscope, nanoimprint lithography, advanced packaging, and contact angle measurement. For further information about ECE, visit our website at www.uwindsor.ca/electrical.

Only those applicants selected for interview will be contacted. The short-listed candidates may be invited to provide further information in support of their applications. To ensure full consideration, complete an **online application** (www.uwindsor.ca/facultypositions) found on the job advertisement, and ensure letters of reference are submitted by the deadline date of December 1, 2016. Applications may be considered after the deadline date; however, acceptance of late submissions is at the discretion of the appointment committee.

Questions to be sent to:

Department Head, Electrical & Computer Engineering, Faculty of Engineering, University of Windsor
401 Sunset Avenue, Windsor, Ontario, Canada N9B 3P4, Phone: 519-253-3000 Ext. 2570; Email: ece@uwindsor.ca

The University of Windsor is a comprehensive research and teaching institution with more than 15,500 students. We are a welcoming community committed to equity and diversity in our teaching, learning, and work environments. In pursuit of the University's Employment Equity Plan, members from the designated groups (Women, Aboriginal Peoples, Visible Minorities, Persons with Disabilities, and Sexual Minorities) are encouraged to apply and to self-identify. If you need an accommodation for any part of the application and hiring process, please notify the Faculty Recruitment Coordinator (recruit@uwindsor.ca). Should you require further information on accommodation, please visit the website of the Office of Human Rights, Equity & Accessibility (OHREA). All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority.