

Teaching-Track Faculty Position in Engineering Design McMaster University, Department of Mechanical Engineering

The Department of Mechanical Engineering at McMaster University is seeking an outstanding individual to teach engineering design at the undergraduate level including within the first-year engineering program. This teaching-track appointment will be at the rank of Assistant Professor and will commence July 1, 2017.

McMaster's large, attractive campus, the interior of which is open only to pedestrians and cyclists, is at the western end of Lake Ontario. The University is minutes from downtown Hamilton, a city rich in history and culture with a vibrant arts community. Nearby recreational and conservation attractions include Cootes Paradise, the Bruce Trail, the Niagara Escarpment, the Waterfront Trail, and the Royal Botanical Gardens. Surrounded by spectacular nature and unique neighbourhoods, Hamilton is ideally located halfway between Toronto and Niagara Falls.

The Faculty of Engineering at McMaster University has a reputation for innovative programs, cutting-edge research, leading faculty, and aspiring students. It has earned a strong reputation as a centre for academic excellence and innovation. The Faculty has over 180 faculty members, along with approximately 4,500 undergraduate and 1,000 graduate students. The Faculty of Engineering promotes a nurturing and inclusive environment where opportunities are made available for personal growth and professional development. The Department of Mechanical Engineering has an outstanding reputation in both research and teaching and is ranked as one of the top departments for Mechanical Engineering in Canada. We have 26 faculty members with expertise in mechanics & design, manufacturing, thermofluid sciences, and biomedical engineering.

At McMaster, all undergraduate students take a common first year program, Engineering 1. This provides a solid foundation in the fundamentals of engineering disciplines and prepares students to choose from one of the 41 programs available for their subsequent years. The recently created/renovated facilities provide students with an exceptional opportunity for "hands-on" learning. These facilities include our modern elliptical computer lab (one of only four in North America) that encourages greater engagement between teachers and students, and a dedicated first-year Experiential Playground and Innovation Classroom (EPIC) that provides an exciting avenue to learn through experience and hands-on application.

The ideal candidate will have experience teaching various topics related to innovative engineering design, technical communication, and human factors engineering. For this teaching-track position, the successful candidate will be expected to spend approximately 80% of her/his time teaching courses distributed between Engineering 1 and Mechanical Engineering. She/he will be expected to keep current with the development of pedagogies related to engineering education particularly, Problem or Project Based Learning, Experiential Education, teaching in large classes and devising and implementing technology in teaching and learning. Additional requirements may include assisting with the implementation of a new undergraduate biomedical engineering program, contributing to the curriculum development for emerging interdisciplinary engineering programs, and making administrative contributions through service to the Department, Faculty and University.

Candidates will hold a doctorate in Mechanical Engineering or a related branch of engineering. The candidate must possess excellent communication skills and a strong commitment to and demonstrated

ability in classroom instruction. The candidate will also have a demonstrated ability to work effectively with individuals from diverse communities and cultures. Experience in computer aided design (using software such as Inventor), engineering computing, and engineering design is desired. Registration as a Professional Engineer of Ontario, or eligibility to acquire registration in Canada, is an essential qualification.

All qualified candidates are encouraged to apply; however, Canadians and Permanent Residents will be given priority. McMaster University is strongly committed to employment equity within its community and to recruiting a diverse faculty and staff. The University encourages applications from all qualified candidates including women, persons with disabilities, First Nations, Métis and Inuit persons, members of racialized communities and LGBTQ-identified persons. If you require any form of accommodation throughout the recruitment and selection procedure, please contact the Human Resources Service Centre at 905-525-9140 ext. 222-HR (22247).

This position is available as of July 1, 2017 and applications will be accepted until the position is filled. Applications by e-mail are encouraged. Interested applicants should send a letter of interest, curriculum vitae, teaching portfolio (including statement of teaching philosophy, description of pedagogical scholarly activities, and recent teaching evaluations), examples of supervised design projects, and the name and address/contact information for at least four references to:

Dr. Marilyn Lightstone, Professor & Chair
Department of Mechanical Engineering
McMaster University, JHE-310
Hamilton, ON Canada L8S 4L7
Email: chairme@mcmaster.ca

To comply with the Government of Canada's reporting requirements, the University is obliged to gather information about applicants' status as either Permanent Residents of Canada or Canadian citizens. Applicants need not identify their country of origin or current citizenship; however, all applications must include one of the following statements:

Yes, I am a citizen or permanent resident of Canada

No, I am not a citizen or permanent resident of Canada