

Teaching-Track Faculty Position McMaster University

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Posted Sep. 12, 2024, set to expire Jan. 14, 2025

Job Title Teaching-Track Faculty Position
Department W Booth School of Engineering Practice
<https://www.eng.mcmaster.ca/sept/>
Institution McMaster University
Hamilton, Ontario

Date Posted Sep. 12, 2024

Application Deadline Dec. 10, 2025

Position Start Date Jul. 1, 2025

Job Categories Assistant Professor
Associate Professor

Academic Field(s) Mechanical Engineering
Manufacturing & Quality Engineering
Industrial & Systems Engineering
Electrical and/or Electronics
Engineering - Other

Job Website <https://hr.mcmaster.ca/careers/current-opportunities/>

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Apply By Email

Job Description

McMaster University's Faculty of Engineering invites applications for a teaching-track position at the rank of Assistant Professor in the School of Engineering Practice and Technology located on the main university campus to begin on July 1, 2025.

The School seeks to recruit an excellent teacher with interest and experience in experiential learning and innovative ways of teaching in the areas of systems automation, internet technologies, and computer integrated manufacturing. Successful candidates will be expected to:

- Teach six courses in both undergraduate and graduate levels (18 credit hours per year)
- Contribute towards the delivery of the School's undergraduate and graduate programs, e.g., by leading Programs, mentoring students, introducing new teaching techniques, evaluating student progress, engagement and motivation through interactive and innovative teaching strategies, participate in student and school events, as well as other service tasks, as assigned;
- Participate in the ongoing design and delivery of courses in manufacturing systems and technology, computer integrated manufacturing and internet technologies;
- Develop and update course materials, assignments, and projects to meet industry standards and emerging trends; and collaborate with other instructors, staff, and industry experts to ensure course quality and relevance;
- Remain up to date with the latest technologies, trends, and applications in manufacturing and systems automation: hybrid, smart, and cyber-physical systems; low power networks; AI; and IoT and IIoT integration;
- Engage in pedagogical research.

Registration, or eligibility for registration, by the Professional Engineers of Ontario is desirable. Salary and rank are commensurate with experience and qualifications.

The successful applicant must have a PhD in Electrical & Computer Engineering, or Mechanical Engineering, or a related discipline by the time of the appointment.

The applicant must also demonstrate subject matter expertise and excellence in teaching

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undergraduate university courses that cover the following areas:

- Manufacturing systems and technology, including material selection and design process measurement and quality assurance in manufacturing; manufacturing processes for plastics, steels, and ceramics; environmental and safety management; and asset management and reliability using ERP systems.
- Computer integrated manufacturing, including programming PLC systems and CNC machines, as well as Internet Technologies and backend systems development, including micro-services, cloud, GIT, containerization, Linux, Web servers and HTML – Resources and Principles, CSS – Bootstrap and DIY, and MySQL & Postgres, NoSQL (Redis) databases.
- Industrial Internet of Things: Setting up virtualization systems for manufacturing production, as well as programming and configuration of Manufacturing Execution Systems (MES), including integration of MES with ERP systems and with the production floor to create vertically integrated computerised manufacturing system. In addition, ability to teach IoT networks such as Xbee, Zigbee, LoRa, WiFi, and Wireless Serial, as well as manufacturing systems integration using cloud and edge computing technologies.

A demonstrated understanding and commitment to student success, teaching excellence, quality education and applied pedagogical research within a university environment are mandatory. The successful candidate must demonstrate effective teaching methods and commitment to adopt modern and innovative teaching approaches, including techniques for online teaching and learning are key components of this role as well as an ability to redesign courses based on learning outcomes and to develop the corresponding assessment tools. Industrial experience and demonstrated leadership roles would be considered a definite asset as would experience with program management in an academic setting including curriculum development and management of instructors and faculty. The qualified candidate must demonstrate the ability to work effectively with individuals from diverse communities and cultures. The applicant must demonstrate a record of excellence in teaching and research and a willingness and ability to contribute to the department's collegial and collaborative intellectual community as well as university-wide inclusive excellence goals and priorities.

McMaster Engineering has a reputation for innovative programs, cutting-edge research, leading faculty, and aspiring students. With over 180 faculty members, along with approximately 6,000 undergraduate and 1,000 graduate students, we have earned a strong reputation as a centre for academic excellence and innovation. Discover more of what McMaster Engineering and the Hamilton area have to offer academic professionals and their families by reviewing our Information Guide highlighting our research excellence, family-friendly resources and rich local culture. Opportunities for

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continuous personal and professional growth are also made available through our Faculty's Fireball Academy and the MacPherson Institute.

Commitment to Inclusive Excellence

The diversity of our workforce is at the core of our innovation and creativity and strengths our research and teaching excellence. In keeping with its Statement on Building an Inclusive Community with a Shared Purpose, McMaster University strives to embody the values of respect, collaboration and diversity, and has a strong commitment to employment equity.

The University seeks qualified candidates who share our commitment to equity and inclusion, who will contribute to the diversification of ideas and perspectives, and especially welcomes applications from First Nations, Métis and Inuit peoples, members of racialized communities ("visible minorities"), persons with disabilities, women, and persons who identify as 2SLGBTQ+.

We invite all applicants to complete a brief Diversity Survey as part of the application process. It takes approximately two minutes to complete. All questions are voluntary, with an option to decline to answer. All information collected is confidential and will be used to support efforts to broaden the diversity of the applicant pool and to promote a fair, equitable and inclusive talent acquisition process. Inquiries about the Diversity Survey may be directed to hr.empequity@mcmaster.ca. Job applicants requiring accommodation to participate in the hiring process should contact the Office of the Dean of Engineering at 905-525-9140 ext. 24900 to communicate accommodation needs.

How to Apply:

Please submit the following materials through the University's electronic portal:

www.workingatmcmaster.ca/careers/ Job Opening # 64985 by December 15, 2024 to: Brian W. Baetz, PhD, PEng, FCSCE, FCAE Director, W. Booth School of Engineering Practice and Technology baetz@mcmaster.ca

- letter of application demonstrating how the candidate meets the selection criteria outlined above and describing, if applicable, the impact that career interruptions may have had on research productivity (1-2 pages)
- curriculum vitae
- statement on teaching interests and philosophy (including evidence of teaching effectiveness)
- statement on contributions to inclusive excellence in teaching, and service, including a description of how you will advance the University's commitment to building an inclusive community and to fostering a culture which embraces and promotes the rich diversity of the campus community (2 pages)

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- the name, title, phone number, and email address for at least three (3) referees who are not in a conflict of interest. Letters of reference are not required at the time of application. The School will request letters of recommendation from referees at later stages of the search process.

Review of applications will continue until the position is filled. The effective date of appointment is negotiable, but July 1, 2025 is preferred. All applicants will receive an online confirmation of receipt of their application; however, only short-listed applicants will be contacted for interviews. Direct any inquiries about this position to mvaz@mcmaster.ca.

All qualified candidates are encouraged to apply; however, Canadian citizens and permanent residents will be given priority. To comply with the Government of Canada's reporting requirements, the University gathers information about applicants' status as either a permanent resident 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

The University is committed to providing and maintaining healthy and safe working and learning environments for all employees, students, volunteers, and visitors.

Questions regarding the above requirements or any accommodation requests through the recruitment process can be directed to hr.mcmaster@mcmaster.ca.

Contact Information

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

Contact Michele Vaz
W Booth School of Engineering Practice
McMaster University
1280 Main Street West
Hamilton, ON L8S 4L8
Canada

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