SMITH ENGINEERING
Queen's University

Mechanical and Materials Engineering

STEPHEN J.R. SMITH FACULTY OF ENGINEERING AND APPLIED SCIENCE AT QUEEN'S UNIVERSITY
Term Adjunct Position
Academic Year 2025-2026

Posting Date: October 15, 2025
Closing Date: October 30, 2025

The Department of Mechanical and Materials Engineering at Queen's University invites applications from suitably qualified candidates interested in teaching the following core second year undergraduate course in the 2025/26 session.

MECH 229 Kinematics and Dynamics
January 1, 2026 – April 30, 2026

Qualifications:
Minimum of M.Sc. in Mechanical Engineering or related field. Previous educational background and/or experience must be suited to teaching the course described below. Candidates must have excellent communication and presentation skills as proven with prior experience, as well as being capable of working as a member of a teaching team. Previous teaching experience at the University level, specifically large lecture-based engineering courses is considered an asset. Registration as a Professional Engineer, or eligibility to acquire registration in Canada, would be a strong asset.

Course Description:
Units: K3.5
This course will cover the following topics in the field of dynamics. Kinematics of particles: planar and three-dimensional motion (rectilinear, curvilinear), choosing a coordinate system, conversions between systems, space curvilinear motion using vector derivatives, free and constrained paths, relative motion between particles. Kinetics of systems of particles: generalized Newton's Second Law, work and energy, impulse and momentum, conservation of energy and momentum, impact. Students will solve dynamics problems analytically and computationally in an active learning environment.
K3.5 (Lec: No, Lab: Yes, Tut: No)
Prerequisites: APSC 111, APSC 172; Exclusions: MECH 229
CEAB Units:
Mathematics 0, Natural Sciences 11, Complementary Studies 0, Eng Science 31, Eng Design 0

Course Details:
This course involves in-person delivery of four 2-hour active learning session per week for twelve weeks (two sections)

Expected Enrolment (subject to change): 285 students.

The successful applicant will have 100% percent responsibility for both sections of this course. Graduate teaching assistants will be assigned to assist with tutorials and marking.

The University invites applications from all qualified individuals. Queen's is strongly committed to employment equity, diversity and inclusion in the workplace and encourages applications from Black, racialized/visible minority and Indigenous people, women, persons with disabilities, and 2SLGBTQ+ persons.

Academic staff at Queen's University are governed by a Collective Agreement between the University and the Queen's University Faculty Association (QUFA).

The University will provide support in its recruitment processes to applicants with disabilities, including accommodation that takes into account an applicant's accessibility needs. If you require accommodation during the interview process, please contact mmeadmin@queensu.ca.

In accordance with Canadian immigration requirements, Canadian citizens and permanent residents of Canada will be given priority, including any qualified individuals who have a valid legal work status in Canada. Please indicate in your application if you have a valid legal work status in Canada. Applications that do not include this information will be deemed incomplete. Applications from all qualified candidates will be considered in the applicant pool.

Applications should include a complete and current curriculum vitae, a statement of teaching experience, the names and contact details of two referees who may be contacted, and any other relevant materials the candidate wishes to submit for consideration. Applications can be submitted to the MME Appointments Committee at the address below, or by e-mail to mmeadmin@queensu.ca. Applications should arrive no later than October 30, 2025 at 11:59pm.

Mechanical and Materials Engineering (MME) Appointments Committee
Department of Mechanical and Materials Engineering
McLaughlin Hall, Room 201
Queen's University, Kingston ON, K7L 3N6
Tel. 613 533-2585