SMITH ENGINEERING
Queen's University

The **Fluids Research Alliance at Queen's (FLAQ)** invites candidates to apply for PhD student positions at the Department of Mechanical and Materials Engineering at Queen's University (Kingston, ON, Canada). Positions are open in the research teams of Dr. Francesco Ambrogi, Dr. Barbara da Silva and Dr. John Kurelek, with the possibility of solo or co-supervision depending on the research project. These positions span three main research areas: (1) Fundamentals of aerodynamics, (2) Wind and renewable energy systems and (3) Bio-inspired turbulent flows. More information about the available projects may be found in this link.

Projects may adopt experimental and/or computational approaches, depending on the interest and skills of the candidate. Please contact us at flaq@queensu.ca with specific questions about the proposed projects.

Requirements. We are looking for candidates with the following qualifications:

- Completed (or close to completion) Master of Applied Sciences or Master of Engineering degree in Mechanical Engineering or related fields
- Skills with computational fluid dynamics and/or experimental techniques applied to fluid mechanics projects, demonstrable through academic projects, internships, conference presentations, journal publications, etc.
- Proficiency in at least one high-level programming language for scientific computation, data analysis and data visualization (e.g., MATLAB, Python, C++)
- Evidence of innovation, initiative, and independent thinking in problem solving
- Strong oral and written communication skills

While all candidates are invited to apply, **we particularly welcome applications from women, Indigenous individuals, racialized individuals, individuals with disabilities and of the 2SLGBTQ+ communities**, who have been traditionally underrepresented in Engineering. We will strive to hire and support individuals who share our commitment to I-EDIAA (Indigenization, equity, diversity, inclusion, anti-racism, and accessibility).

Start date. January 2026, May 2026 or September 2026. Start dates are flexible according to the availability of the applicant.

Application process. Interested candidates should submit the following documents in PDF format to flaq@queensu.ca:

- Updated CV
- Cover letter highlighting research interests, relevant experience and project(s) of interest
- Academic transcripts from previous degrees
- Contact information for at least two academic or professional references

The email's subject line should read "Application for PhD position in Mechanical Engineering". Please note that only shortlisted candidates will be contacted for an interview.

Successful candidates will join an exceptionally collaborative and supportive research community, with opportunities to work in newly established labs with fresh ideas and new equipment. The selected candidates are expected to formally apply to the PhD program at the Department of Mechanical and Materials Engineering at Queen's University, and to fulfill the minimum admission requirements as outlined in: https://smithengineering.queensu.ca/mme/graduate/phd.html.