MS/PhD/ Postdoc Openings in
Data-Driven & SciML Methods in Engineering Science

Dr. Mustafa Mohamad's research group at the **University of Calgary** is seeking MS/PhD/Postdocs students/researchers for funded positions focusing on **data-driven methods, uncertainty quantification, and scientific machine learning in *energy systems and environmental monitoring*.** We are working on the next generation of technologies to support a renewable hydrogen economy through new algorithmic advances and technologies.

ABOUT YOU

A self-motivated individual with skills in computational methods, applied mathematics, optimization, statistics & probability, machine learning, dynamical systems, and programming. We are *particularly interested in individuals with a strong background in one or more of the areas: probability & stats, applied math, combustion science, and/or computational science.*

HOW TO APPLY

- Send a brief statement on research experience/career goals, your CV, and transcripts to
  mustafa.mohamad@ucalgary.ca
- **Email title must be in the format:** Application – [MS/PhD/Postdoc] – Full Name
  E.g: Application – MS – Jane Doe
  Applications not in this format will be discarded.
- Include *references that can be contacted in your CV and feel free to include any projects that demonstrate your expertise, e.g. projects or publications, or interesting facts that make you motivated to join our team.*

PhD students need to hold or complete a MS degree prior to admission into the program. MS students require an undergraduate degree before admission with a suitable GPA.

Only candidates with strong academic records will be considered. Candidates from Canadian and international institutions are welcome.

We thank all applicants for their interest; however, only qualified candidates will be contacted. The application will remain open until positions are filled.

Do not send repeated emails as these applications will be discarded.

For full consideration, please submit application materials before Mar 15, 2025.
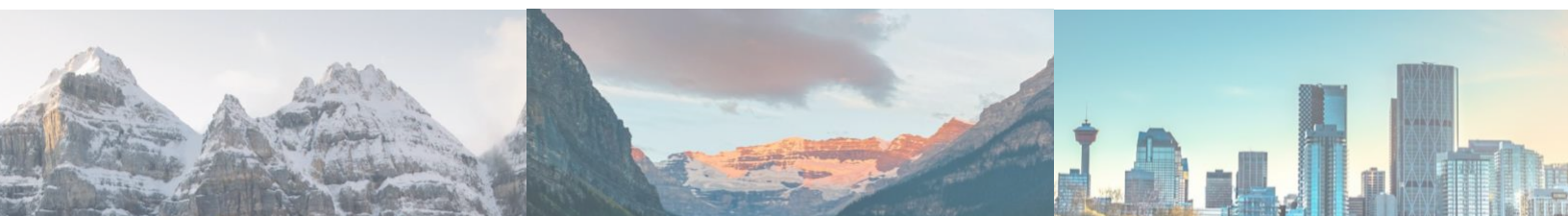
ABOUT THE PI

Dr. Mustafa Mohamad is an expert in stochastic dynamical systems, uncertainty quantification, and extreme event analysis. He received his bachelor's degree in Engineering Mechanics with a minor in Mathematics in 2012 from the **University of Illinois at Urbana-Champaign**, graduating with highest honors. He obtained his master's degree in 2015 and PhD in 2017 from **MIT** in Mechanical Engineering and Computation. He was a postdoctoral associate at the **Courant Institute of Mathematical Sciences** at **NYU**. Mustafa also worked in private industry as a research scientist at Numerica Corporation, specializing in the development of optimization and sensor scheduling algorithms for space and air defense applications.

For a list of existing publications, see Mustafa A. Mohamad - Google Scholar.

ABOUT THE UNIVERSITY OF CALGARY

The University of Calgary is **Canada's leading next-generation university** – a living, growing and youthful institution that embraces change and opportunity. The University of Calgary inspires and supports discovery, creativity, and innovation across all disciplines. For more information, visit University of Calgary (ucalgary.ca).

ABOUT CALGARY, ALBERTA

Calgary is one of the world's cleanest cities and has been named one of the ***world's most livable cities for years***. Calgary is a city of leaders - in business, community, philanthropy, and volunteerism. Calgarians enjoy **more days of sunshine per year than any other major Canadian city**. Calgary is less than an hour's drive from **the majestic Rocky Mountains** and boasts the most extensive urban pathway and bikeway network in North America.

EQUITY, DIVERSITY, AND INCLUSION

The University of Calgary has launched an institution-wide Indigenous Strategy in line with the foundational goals of Eyes High, committing to creating a rich, vibrant, and culturally competent campus that welcomes and supports Indigenous Peoples, encourages Indigenous community partnerships, is inclusive of Indigenous perspectives in all that we do.

As an equitable and inclusive employer, the University of Calgary recognizes that a diverse staff/faculty benefits and enriches the work, learning and research experiences of the entire campus and greater community. We are committed to removing barriers that have been historically encountered by some people in our society. We strive to recruit individuals who will further enhance our diversity and will support their academic and professional success while they are here. We encourage members of the designated groups (women, Indigenous peoples, persons with disabilities, members of visible/racialized minorities, and diverse sexual orientation and gender identities) to apply.