



# Research Positions Opening in CFD for Hydrogen Combustion Modelling

Department of Mechanical and Manufacturing Engineering

Dr. Leo Fang is seeking 1 MS student and 1 Post-Doc to join **fully funded projects** on computational fluid dynamics for turbulent reactive flows, particularly for hydrogen combustion applications. The project mainly focuses on developing computational diagnostics tools and the study of the effect of differential diffusion on lean burn hydrogen combustion for industrial applications. The project will be for two years with an annual stipend following the department's guidance.

## About You

MSc student: You should possess a relevant Bachelor's degree in engineering, computational sciences, or mathematics, together with valid English Language Test results if needed (e.g. IELTS score of **7 with no section less than 6.0 (Academic version)**). Previous novel numerical model development experience through Python or Matlab would be preferred.

Post-doc: You should hold a relevant PhD/DPhil in engineering, computational sciences, physical sciences, or mathematics, together with relevant experience. A strong background in combustion model development, numerical algorithms, and computational science. Experience in implementing models in OpenFoam or Converge would be highly preferred.

## How to Apply

Please send a **brief statement of research experience**, a **CV**, and **transcripts** to Dr Leo Fang ([xiaohang.fang@ucalgary.ca](mailto:xiaohang.fang@ucalgary.ca)). Only candidates with strong academic records will be considered. Candidates from both Canadian and international backgrounds are welcome. We thank all applicants for their interest; however, only qualified candidates will be contacted.

## About the University of Calgary

The University of Calgary is Canada's leading next-generation university. The University of Calgary inspires and supports discovery, creativity, and innovation across all disciplines. For more information, visit the University of Calgary ([ucalgary.ca](http://ucalgary.ca)). Calgary is also known as Canada's energy capital, creating unique opportunities for the proposed research.

**For full consideration, please submit application materials before Dec 13th, 2023.**



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