

December 30, 2021

Postdoctoral position in carbon nanoparticle (e.g. soot) modeling

at Prof. Murray Thomson's lab at the University of Toronto, Canada

Responsibilities and project description:

The project will develop and validate models of carbon nanoparticle formation in high temperature thermofluid configurations including flames and reactors. The project will also use these models to better understand several applications including soot formation, carbon black synthesis and hydrogen production from methane pyrolysis. The selected candidate will be working closely with a team of masters and PhD students as well as three industrial partners. The selected postdoctoral fellow is responsible for leading and conducting this project.

Required Qualifications:

Candidates must have a PhD in mechanical engineering, chemical engineering or related field. Experience with reacting flows (such as combustion) is essential. Excellent communication skills, strong independent research skills, and collaborating with industry partners. The applicant will be expected to work independently, provide leadership to an interdisciplinary team of graduate students, and produce publishable results.

Job details and application deadline:

The job duration is initially 12 months and can be renewed. The application will remain open until the position is filled. The stipend is a total of \$60,000 CAD per year.

How to apply and deadline for application:

Please email your CV and one sample publication to Prof. Thomson (<u>murray.thomson@utoronto.ca</u>)

About the University of Toronto

The University of Toronto is Canada's largest university and is ranked among the top universities worldwide. Prof. Thomson's lab is located in the St. George campus located in downtown Toronto. Toronto is Canada's largest city and is the capital of Ontario.

Murray Thomson PhD, PEng, FEIC, FCAE, FCI

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