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
(murray.thomson@utoronto.ca)

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.

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