

Postdoctoral Fellow Position

Available with the

Southern Ontario Centre for Atmospheric Aerosol Research **University of Toronto**

The [Southern Ontario Centre for Atmospheric Aerosol Research](#) (SOCAAR) is searching for an outstanding post-doctoral fellow (PDF) interested in pursuing multidisciplinary environmental research and making a meaningful contribution to important social issues. Specifically, we are seeking an individual for a two to three-year position to take a lead role in a new study on non-tailpipe particulate matter.

In this role, the PDF will design and execute field measurements of traffic pollutants in the Greater Toronto and Hamilton Area. These measurements will include saturation studies of PM_{2.5} and NO_x, mobile sampling to assess road dust resuspension, and application of a network of sensor-based air quality monitors. The PDF will also work with the research team to analyse these data, evaluate temporal trends, create concentration maps, and mobilise the findings through reports, presentations, and publications. The ideal individual will have a PhD in environmental engineering, atmospheric chemistry, geography, or public health and many of the following qualities:

- Experience with chemical and physical analysis of air pollutants and operation and maintenance of the associated instrumentation
- Experience with exposure assessment in relation to public health
- Experience with programming to automate data collection and processing
- Experience with compiling and analyzing large data-sets
- Strong communication and excellent writing skills
- Motivation for teamwork and a desire to pursue multidisciplinary research
- A desire to help mentor and support the development of students.

SOCAAR is a multidisciplinary centre that is investigating the impacts of air pollutants on the environment, human health, and climate. SOCAAR brings together environmental engineers, atmospheric chemists, and medical and health researchers, and provide them with state-of-the-art instruments and facilities. Our research goal is to make key connections between emissions of pollutants and the quality and composition of urban air and its impacts on human health and the environment.

SOCAAR is strongly committed to diversity within its community and especially welcomes applications from racialized persons / persons of colour, women, Indigenous / Aboriginal People of North America, persons with disabilities, LGBTQ persons, and others who may contribute to the further diversification of ideas. The PDF will have opportunities for further professional and career development through the [Institute for Studies of Transdisciplinary Engineering Education and Practice \(ISTEP\)](#), including our Prospective Professors in Training (PPIT) program.

Qualified individuals should email a cover letter CV, PhD thesis abstract, and contact information for three references to Prof. Greg Evans greg.evans@utoronto.ca

We anticipate a start date in early 2023 but will continue searching until the position is filled.