September, 27th, 2019:

Environment and Climate Change Canada, Air Quality Research Division: **Post-Doctoral Position**

Toronto, Ontario, Canada

The Air Quality Research Division invites applications for the position of a Post-Doctoral Fellow for a one year term with the possibility of renewal for up to 2 additional years upon mutual agreement.

The focus of the research will be on the formation of oxidized products, including Secondary Organic Aerosol (SOA) via semi- and intermediate volatility organics derived from anthropogenic precursors. The work will include focused laboratory and field studies. The laboratory component of the research project will involve the use of oxidation flow reactors and/or smog chambers, with advanced gas and aerosol instrumentation (HR-ToF-AMS, HR-ToF-CIMS, HR-ToF-PTR-MS, EESI-CIMS, SMPS) to study the oxidation and chemical interactions between organic gases and aerosols under realistic atmospheric conditions. Airborne field studies exploring the atmospheric transformations of primary organic emissions from boreal forest fires may also be conducted. The successful candidate will work closely with scientists at Environment and Climate Change Canada and university collaborators.

A Ph.D. in chemistry, atmospheric sciences, environmental engineering, or a related discipline is required. Demonstrated skills in experimental atmospheric chemistry/physics are also required. Experience with advanced gas and aerosol instrumentation use (Chemical ionization mass spectrometry (CIMS), Aerosol mass spectrometry (AMS), SMPS), computer programming, and/or complex data analysis is highly desirable. Prior experience with field measurements is also desirable.

The successful candidate must have the ability to travel to field studies for periods of up to 6 weeks, to work in a team environment and with multiple collaborators. A demonstrated ability to publish in the peer-reviewed literature is essential.

Qualified candidates are requested to send their curriculum vitae, including a full list of publications, their date of availability and contact information for 3 references to Dr. John Liggio by e-mail (john.liggio@canada.ca).

Review of complete applications will begin immediately until the position is filled.

To be eligible, the candidate must have obtained a PhD within the past 5 yrs. Environment and Climate Change Canada's Air Quality Research Division studies the chemistry and physics of the atmosphere as it pertains to a variety of atmospheric pollution problems.

http://www.ec.gc.ca/air-sc-r/Default.asp?lang=En&n=89DC4AB1-1