



UNIVERSITY
OF MANITOBA

Clayton H. Riddell Faculty of
Environment, Earth, and Resources

Centre for Earth Observation Science

POSTING: Partitioning of petrogenic polycyclic aromatic hydrocarbons (PAHs) in cold water and sea ice.

We are seeking a highly motivated Masters or Doctoral candidate with strong academic experience in organic chemistry to conduct research on partitioning of PAHs between particulate matter-associated and dissolved phases in cold water and sea ice, and between liquid and solid fractions of sea ice. The project will be executed in close collaboration with the industry partner (the KGS Group) and will have an industry placement component. The successful candidate for this position will be working with the oil-in-sea ice team at CEOS, to better understand the importance of particles for PAH partitioning at the Ocean-Sea Ice-Atmosphere interface (OSA), and for oil emulsification and sinking after an oil spill (crude oils, fuel oils). Candidates will be expected to contribute to presentations for the industrial partners, participate in the development of laboratory techniques to measure PAH concentrations in particulate matter and water matrices and characterize emulsions and particles, and author peer-reviewed publications.

Applicants should have a strong background in the areas of organic chemistry, and preferably marine organic chemistry. Special consideration will be given to those candidates who have had exposure to laboratory methods including GC-MS, GC-GC-ToF-MS, fluorescent spectroscopy, optical or epifluorescence microscopy, or scanning electron microscopy (SEM).

The successful candidate will be working at the Centre for Earth Observation Science (CEOS) of the University of Manitoba, Winnipeg, Canada. Housed within the Clayton H. Riddell Faculty of Environment, Earth and Resources, CEOS is home to 15 full time faculty and approximately 70 graduate students, research associates, and other staff devoted to the study of Arctic marine science. The Centre is located in the newly developed Nellie Cournoyea Arctic Research Facility. CEOS is a founding member of the international Arctic Science Partnership (ASP).

Application deadline: August 15, 2016

Applications should be emailed to Dr. Monika Pućko
Monika.Pucko@umanitoba.ca

Please include in your application a CV, transcripts, a short statement of relevant research experience and interests, and the contact information for two referees.



For further information, please visit:

CEOS: umanitoba.ca/ceos

ASP: asp-net.org

CMO: umanitoba.ca/ceos/research/CMO.html

CCGS Amundsen: amundsen.ulaval.ca

