



UNIVERSITY
OF MANITOBA

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

Centre for Earth Observation Science

**POSTING: Remediation techniques for oil spills in cold and/or ice-dominated waters.
(co-supervised by Dr. Pućko and Dr. Barber)**

We are seeking a highly motivated Masters or Doctoral candidate with strong academic experience in environmental engineering and organic chemistry to test and develop techniques for remediation of oil spills (crude oils, fuel oils) in cold waters where sea ice may be present. 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, and engineers from the KGS Group to contribute to the development of techniques and prototypes of devices that would be suitable for cleaning up marine oil spills in the Arctic. Candidates will be expected to contribute to presentations for the industrial partners, participate in the development of laboratory techniques to measure effectiveness of clean-up procedures tested, and author peer-reviewed publications.

Applicants should have a strong background in the areas of environmental engineering and 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, and/or strong academic experience in physics with special emphasis on electromagnetism, and/or experience in engineering design process.

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

