

**JOBS - JOBS - JOBS - JOBS - JOBS - JOBS - JOBS****UNIVERSITY  
OF MANITOBA****Graduate & Postgraduate Positions in Arctic Marine Science  
University of Manitoba, Winnipeg and elsewhere**

The Centre for Earth Observation Science (CEOS) at the University of Manitoba is seeking at least 30 new graduate students at the MSc, PhD and Postdoctoral levels, as a major new intake of students to conduct research in a variety of Arctic marine system studies in Canada, Greenland, northern Europe, Eurasia and Pacific sectors of the Arctic. More specifically, CEOS seeks students in each of the following areas:

- Atmospheric and oceanic forcing of sea ice dynamic and thermodynamic processes  
(D. Barber at [dbarber@cc.umanitoba.ca](mailto:dbarber@cc.umanitoba.ca))
- Sea ice geomicrobiological processes and benthic-sea ice coupling  
(S. Rysgaard at [SoRy@natur.gi](mailto:SoRy@natur.gi))
- Geochemistry and materials science in sea ice related processes  
(N. Halden at [halden@cc.umanitoba.ca](mailto:halden@cc.umanitoba.ca))
- Carbon and contaminant cycling and process in Arctic marine and freshwater ecosystems  
(G. Stern at [Gary.Stern@DFO-MPO.GC.CA](mailto:Gary.Stern@DFO-MPO.GC.CA))
- Arctic physical oceanography and linkages to physical forcing of the ocean-sea ice-atmosphere (OSA) interface  
(I. Dmitrenko at [dmitrenko@ifm-geomar.de](mailto:dmitrenko@ifm-geomar.de))
- Trace elements, contaminant pathways and mercury deposition  
(F. Wang at [wangf@ms.umanitoba.ca](mailto:wangf@ms.umanitoba.ca))
- Air-sea and air-sea ice exchange of trace gases and energy, with linkages to surface ocean and sea ice biophysical and biogeochemical processes and properties (T. Papakyriakou at [papakyri@cc.umanitoba.ca](mailto:papakyri@cc.umanitoba.ca))
- Arctic geochemistry and inorganic processes linking freshwater and marine systems  
(Z. Kuzyk at [Zou\\_zou.Kuzyk@ete.inrs.ca](mailto:Zou_zou.Kuzyk@ete.inrs.ca))
- Solar radiation interactions with the sea ice environment, linkages to physical and biological processes governing sea ice formation, evolution and melt (J. Ehn at [jehn@ucsd.edu](mailto:jehn@ucsd.edu))
- Biological and physical processes controlling the timing, magnitude, location and fate of ice and ocean primary production  
(C.J. Mundy at [Mundy@umanitoba.ca](mailto:Mundy@umanitoba.ca))

Most positions will be located in Winnipeg but some could be located elsewhere, for example at a partner institution. Candidates should send a CV and letter of intent directly to the indicated faculty members. General inquiries can be sent to Prof. David G. Barber, Director of CEOS ([dbarber@cc.umanitoba.ca](mailto:dbarber@cc.umanitoba.ca)). Further details about the application process can be found at the University of Manitoba's website

<http://www.umanitoba.ca/faculties/environment/departments/geography/graduate/570.html>

**University of Manitoba  
Winnipeg, Manitoba  
Canada R3T 2N2**