Postdoctoral Position in Arctic Hydrological-Biogeochemical Modeling

The Climate System Research Center (CSRC, https://blogs.umass.edu/csrc) at the University of Massachusetts-Amherst serves to advance understanding of the nature and causes of climate change, and the effects that those changes have had on the environment. This research leads to a better understanding of how the climate system functions. Its mission emphasizes high quality climate research at an international level, the education and training of student scholars, and outreach to the public through interactions with the media and public lectures. CSRC scholars engage the broader scientific community by publishing peer-reviewed journal articles, presenting results at conferences, and participating in working groups examining climate system dynamics.

Overview:

The CSRC seeks highly self-motivated and qualified postdoc applicants to work on development and implementation of process modeling of hydrological and biogeochemical fluxes within river and aquatic systems in Arctic environments. The appointment is affiliated with the Beaufort Lagoons LTER (https://ble.lternet.edu/) and NASA ABoVE (https://above.nasa.gov/). Project goals center on quantifying the timing and magnitude of terrestrial water, carbon, and energy exports to coastal zones and assessments of the impacts of climate change. There will be opportunities to develop and pursue novel hypotheses in the context of project goals. This is a two year appointment with continuation contingent on satisfactory performance. Salary is commensurate with research experience, ranging from $58,000 to $62,000 in the first year. Anticipated start in August 2022. Postdoctoral scholars are required to have completed a doctoral degree no later than at the time of the appointment decision. The University of Massachusetts provides a comprehensive benefits package to postdoctoral scholars.

Essential Qualifications:

Background in earth system science, geography, ecology, physics or a related field.

Experience in developing, testing, and implementing hydrology or land surface models.

Preferred Qualifications:

Experience with Fortran, C/C++, R, Python, or ArcGIS/QGIS.

Experience in analysis and processing of large data sets.

Knowledge of the climate, hydrology, and biogeochemistry of Arctic environments.

Excellence in research as demonstrated through publication of manuscripts in refereed journals and presentations at scholarly conferences.

To Apply:

Applicants should submit a cover letter describing relevant experience and qualifications, and a curriculum vitae, to Dr. Michael Rawlins <mrawlins@umass.edu>. Letters of recommendation will be sought from qualified candidates. The University of Massachusetts Amherst is an Affirmative Action / Equal Opportunity Employer (EOE) of women, minorities, veterans, and individuals with disabilities. Applications from these and other protected groups are highly encouraged.