HAJIM
SCHOOL OF ENGINEERING
& APPLIED SCIENCES
UNIVERSITY *of* ROCHESTER

Postdoc position in Ocean Dynamics

We are soliciting applications for a postdoctoral position in the Turbulence and Complex Flow group at the Department of Mechanical Engineering, University of Rochester. More information about the group can be found at http://www.me.rochester.edu/~haluie/

The topic of research concerns the nonlinear multiscale nature of Oceanic flows. Large-scale currents, eddies, and waves pervade the Ocean and play a prime role in the general circulation and climate. The coupling between scales ranging from $O(10^4)$ *km* down to the $O(1)$ *mm* scale presents a major difficulty in understanding, modeling, and predicting oceanic circulation and mixing. The overarching aim of the project is to analyze interactions between different scales and structures in the Ocean, and map out the energy pathways between various nonlinear processes driving the flow. The research will further develop, implement, and utilize novel techniques to probe Oceanic flow data from numerical models and from satellites. The project is a collaboration among Dr. Hussein Aluie (U of R), Dr. Matthew Hecht (Los Alamos National Lab, LANL), and Dr. Geoff Vallis (U of Exeter).

We welcome applications from candidates with a background in GFD, engineering, physics, applied math, or related disciplines with a strong interest in fluid dynamics. Proficiency in programming is required. Previous experience with oceanic or atmospheric GCMs is highly desirable.

Evaluation of applications will begin immediately and continue until the position is filled. The start date is very flexible (between now and 09/2015) so we encourage interested candidates to apply now, regardless of their availability in the near future.

The position is for two years subject to satisfactory performance. Salary and benefits are competitive, will be commensurate with qualifications and experience, and will include a travel allowance.

Applications should be emailed as a single pdf file to Hussein Aluie (hussein**At*rochester.edu) and must include (i) a brief one- or two-page letter describing the candidate's academic background, interests, and their future research/career plans, (ii) CV, and (iii) contact information of three references.