Fellowships in Geophysical Fluid Dynamics

at

Woods Hole Oceanographic Institution

June 17 to August 23, 2024

Since 1959 the GFD program has promoted an exchange of ideas among researchers in the many distinct fields that share a common interest in the nonlinear dynamics of fluid flows in oceanography, meteorology, geophysics, astrophysics, applied mathematics, engineering and physics. Each year, the program is organized around a ten-week course of study and research for a small group of competitively selected graduate-student fellows. The overall philosophy is to bring together researchers from a variety of backgrounds to provide a vigorous discussion of concepts that span different disciplines, and thereby to create an intense research experience. For the student fellows, the centerpiece of the program is a research project, pursued under the supervision of the staff. At the end of the program, each fellow presents a lecture and a written report for the GFD proceedings volume. Over its history, the GFD Program has produced numerous alumni, many of whom are prominent scientists at universities throughout the world. The interdisciplinary atmosphere of the Program is the ideal place for early career scientists to learn the habits of broad inquiry, of speaking to others with very different backgrounds and viewpoints, and of seeking answers in unfamiliar places.

The Program commences with two weeks of Principal Lectures focusing on a particular theme. For 2024, the theme is **"Multiscale GFD"**. The lecturers, **Keith Julien** (University of Colorado, Boulder) and **Basile Gallet** (Université Paris-Saclay, CEA, CNRS), will introduce novel multiscale asymptotic modeling approaches for investigating turbulent geophysical flows subjected to constraints imposed by planetary rotation, stable or unstable density stratification, or surface-wave driving, with applications to planetary interiors and ocean dynamics.

Up to ten competitive fellowships are available for graduate students. Successful applicants will receive stipends of $7,793 and an allowance for travel expenses within the United States. Fellows are expected to participate full-time (40 hours per week) for the full ten weeks of the Program. The application deadline is **February 5, 2024**. Awards will be announced in March. We seek applicants from all areas of Geophysical Fluid Dynamics, and particularly encourage applications from women and members of underrepresented groups. Further information and application forms may be obtained at **https://gfd.whoi.edu** or by writing to: gfd@whoi.edu

Prospective visitors should contact Greg Chini at greg.chini@unh.edu or Bruce Sutherland at bruce.sutherland@ualberta.ca

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