



PhD positions in Fluid and/or Plasma Dynamics

We are seeking highly motivated PhD students to join our group in the Department of Mechanical Engineering at the University of Rochester (UofR). More information can be found at <http://www.me.rochester.edu/~haluie/>

The positions are highly interdisciplinary and can involve research in several areas, including fluid dynamics, geophysical flows, plasma physics, turbulence, nonlinear multi-scale science, hydrodynamic instabilities. Research can include any combination of theory, simulations, and/or experiments. We are especially seeking applicants with interest in analyzing and understanding (i) oceanic flows or (ii) flows in fusion plasmas and astrophysical systems. We are keenly interested in increasing the diversity of our group and encourage applications from women and members of historically underrepresented groups.

Founded in 1850, UofR is a highly competitive private research university which enrolls approximately 6,000 undergraduate and 3,500 graduate students. It has historical links to pivotal US social movements, including women's suffrage (Susan B. Anthony) and abolitionism (Frederick Douglass).

Fluids and Plasma research at UofR is thriving thanks to a well-established collaborative group involving several faculty and a large number of students and postdocs. We host a multi-institution NSF Physics Frontier *Center for Matter at Atomic Pressures* (CMAP). Successful candidates would join a large group with diverse backgrounds and interests, including active collaborators at Princeton, MIT, Oxford, UC Berkeley, U. Rome, U. Liverpool, Livermore National Lab, Los Alamos National Lab. Our department offers a friendly and stimulating research environment, and enjoys strong ties to a leading DOE fusion research facility, the *Laboratory for Laser Energetics*, which is adjacent to campus, and to the medical school, one of the top in the US.

The city of Rochester is a thriving and affordable, low-stress, medium sized metropolis (metro area population ~1 million) with excellent public services and amenities. It enjoys a vibrant performing arts culture thanks in-part to UofR's Eastman School of Music, often ranked as the top music school in the US, and several small colleges that focus on the arts. For outdoors enthusiasts, there are many well-maintained parks that offer sanctuaries within the city and many gorgeous state parks that are less than a 1 hour drive. Many of the beaches along lake Ontario are within 15-30 minutes from the city, and the Adirondack mountains are within a 3 hour drive.

Potential candidates are encouraged to contact Hussein Aluie (hussein**At*rochester.edu) with inquiries and to express their interest in the position. Please attach a CV.

To start in January 2024, please contact Hussein Aluie.

To start in late August 2024, please plan to apply by **January 1, 2024**.

Formal applications should be submitted through the ME department's [website](#)