

Postdoctoral Researcher in Plasma Physics

The Plasma Diagnostics Group in the UCLA Department of Physics and Astronomy is seeking applications for a (full-time) Postdoctoral Researcher in the area of Plasma Physics/Fusion Research. This position will be focused on simulation/modeling work and experimental validation, to elucidate the physics of transport barriers in plasmas with positive and negative triangularity shaping, in particular the L- to H-mode transition, a crucial topic in fusion research. Tasks will be mainly focused on validation of fluid and gyrokinetic simulations of the plasma edge. An extensive suite of codes for transport and stability analysis is available within the OMFIT framework at DIII-D. Simulation and modeling work will be carried out in collaboration with plasma theorists and experts from the plasma simulation community. This position will also include participation in experiments at DIII-D in collaboration with the UCLA and DIII-D teams, taking advantage of a broad array of advanced plasma diagnostics including millimeter wave diagnostics for turbulence and plasma flow measurements. All work will take place at the DIII-D National Fusion Facility in San Diego, CA 92121.

Qualified candidates will have received a Ph.D. in Physics or a related field, and should have a demonstrated background directly applicable to the investigative effort and tasks. Familiarity with plasma transport analysis, and/or fluid or gyrokinetic plasma simulations is a significant advantage. Salary is commensurate with experience (\$70,000-\$75,000). The initial appointment will be for a 12-month timeframe with a possible extension of 24 months. Candidates should provide a curriculum vitae, a publication list and arrange for 2-3 letters of reference, to be sent to Ischmitz@ucla.edu. For full consideration, applications should be received by October 15, 2024. However, applications will be accepted until the search is closed. Please contact Dr. Lothar Schmitz (Ischmitz@ucla.edu) for further information.

The University of California is an Equal Opportunity/Affirmative Action Employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability, age or protected veteran status. For the complete University of California nondiscrimination and affirmative action policy see: UC Nondiscrimination & Affirmative Action Policy at <https://policy.ucop.edu/doc/4000376/DiscriminatioHarassmentAffirmAction>