

Research Engineer / Postdoctoral Researcher

Data-driven modeling of low-temperature plasma dynamics

Aeronautics and Astronautics Stanford University

The Plasma Dynamics Modeling Laboratory (PDML) in the Department of Aeronautics and Astronautics at Stanford University is seeking a Research Engineer or a Postdoctoral Research Fellow.

The position is focused on development of data-driven models (e.g., machine learning, neural network, state estimation, optimization techniques) to understand the physics and chemistry of low-temperature plasmas (such as plasma-material/surface interaction, collisional and radiative processes, plasma instabilities, plasma turbulence, etc) in space propulsion and plasma processing systems.

The researcher must have a Ph.D. degree in Physics, Engineering, Applied Mathematics, or similar disciplines, with a particular focus in plasma science, rarefied gas dynamics, computational fluid dynamics, or closely related fields. Highly motivated and hardworking candidates with a strong background in computational plasma and fluid dynamics are encouraged to apply.

More information about the research group is available at <https://pdml.stanford.edu/>

The initial appointment period is 1 year with a reappointment for 2 or 3 years upon availability of funds and subject to performance.

Applicants are invited to send a resume/CV, including a list of publications, a brief statement of research interests, and contact information of three references to Prof. Ken Hara (kenhara@stanford.edu).

