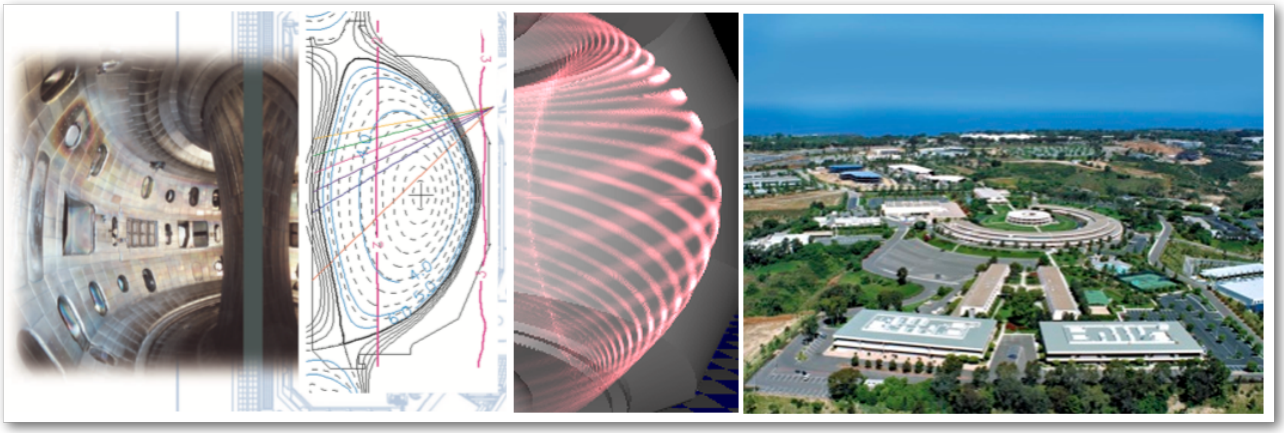
Postdoctoral Fellowship on Plasma-Material Interactions in Tokamaks

General Atomics, San Diego, CA



The General Atomics Theory and Computational Science Department conducts fundamental research in the theory of fusion plasmas and facilitates scientific discovery through advanced computing. Located at the site of the DIII-D National Fusion Facility, the department provides theoretical, simulation and modeling support to DIII-D, as well as to ITER and other fusion experiments worldwide.

We are seeking a Postdoctoral Fellow with computational expertise in plasma-material interactions and/or in magnetic confinement plasma physics. The successful applicant will conduct theoretical and computational studies of dynamic fuel recycling and transport of neutrals and impurities in boundary plasmas to advance the understanding of plasma-material interactions and scrape-off plasma transport in tokamaks. The Postdoctoral Fellow will also interact with experimental groups to propose and analyze dedicated experiments conducted at DIII-D. The successful applicant is expected to publish original research in refereed journals and present results at appropriate technical conferences.

The candidate should be:

- self-motivated and creative.
- able to function effectively in a team environment.
- experienced with Unix/Linux and with at least one scientific programming language(C, C++, Fortran) and one scripting language (Python, Matlab, Julia).

Applicants for this position must have obtained a PhD in a relevant physics or engineering discipline and demonstrated research ability through publications, reports and presentations.

To apply and for additional information, please contact Dr. Jerome Guterl (guterlj@fusion.gat.com)

GA Theory and Computational Science Department web page: https://fusion.gat.com/global/theory/home