



Fusion Energy Scientist

Your work will be applied to make a fusion pilot plant a reality! **APPLY NOW!**

Oak Ridge National Laboratory has an exciting opportunity for a Research Scientist to perform high impact work in the area of experimental tokamak plasma boundary physics. ORNL is working to figure out how to successfully handle the power from a tokamak-based fusion reactor without eroding the walls or contaminating the plasma core. This area of research is among the highest priorities in the US fusion community, and we need your help to figure it out!

This staff position would be located at the DIII-D National Fusion Facility in San Diego, CA. DIII-D is the largest operating tokamak in the US. You will have an excellent mentors and career development opportunities, with support from a large number of colleagues in both the ORNL Fusion Energy Division and the DIII-D team. You'll utilize ORNL's spectroscopic diagnostics, perform experiments, data analysis, model validation, and apply improved understanding to reactor design. Depending on interest, work can focus in the area of divertor design or plasma facing material solutions, leveraging ORNL's large boundary simulation tools and expertise.

No prior experience in these topics is required. You'll be doing things like:

- Developing, executing, and analyzing data from experimental studies, including comparisons with simulation results
- Operation, maintenance, and data analysis for spectroscopic diagnostics
- Collaborating with a broad and diverse team, including experimentalists and computational colleagues
- Performing foundational R&D needed for success of fusion energy as a clean, reliable energy source

Questions? Curious but want more info? Contact:

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Inside of DIII-D Tokamak

