



## AUBURN UNIVERSITY

COLLEGE OF SCIENCES  
AND MATHEMATICS

### **Postdoctoral Research Opportunity Experimental Plasma Physics at Wendelstein 7-X**

The Department of Physics at Auburn University is seeking a qualified individual for a postdoctoral position in experimental fusion plasma physics to work on the Wendelstein 7-X experiment located in Greifswald, Germany. The W7-X device is a next generation, optimized stellarator, which began operations in 2015. A focus of this position is to investigate the physics of the island divertor concept through utilization of a novel Coherence Imaging Spectroscopy (CIS) technique providing 2D measurements of impurity ion Doppler parameters. Development of the CIS technique for W7-X experiments and interpretation of the measurements in conjunction with plasma fluid transport predictions will comprise the primary responsibilities of the position. Previous experience with optical diagnostics, signal processing, or plasma transport models is desirable. The present postdoctoral position is embedded into a larger, international stellarator collaboration involving the Max Planck Institute for Plasma Physics with other US universities and national laboratories. Additional opportunities for interactions with other US collaborators are anticipated through projects involving equilibrium reconstruction, and an X-ray Imaging Crystal Spectrometer (XICS). The postdoctoral researcher will be employed by Auburn University but is expected to be onsite at the W7-X facility in Greifswald, Germany for a significant portion of the appointment.

This position is available for a minimum of one year with renewal anticipated based on performance and funding. Salary is commensurate with education and experience. Candidates must possess a Ph.D. or equivalent degree in physics or a closely related field. In addition, the candidate selected for this position must be able to meet eligibility requirements to work in the United States at the time the appointment is scheduled to begin and continue working legally for the proposed term of employment. Excellent written and interpersonal communication skills are required.

Candidates are invited to apply online at:

<http://aufacultypositions.peopleadmin.com/postings/2455>.

Applications should include a letter of interest, curriculum vitae, and the names and contact information of three professional references. Review of applications will begin November 1<sup>st</sup>, 2017 and continue until the position is filled. More information about the department can be found at: <http://www.physics.auburn.edu>. Further questions about the position should be addressed to Dr. David Maurer ([maurer@physics.auburn.edu](mailto:maurer@physics.auburn.edu)).

**Auburn University is an EEO/Vet/Disability Employer**