



AUBURN UNIVERSITY

COLLEGE OF SCIENCES
AND MATHEMATICS

Two post-doctoral research positions in the Physics Department at Auburn University

As part of a new, NSF-funded, Alabama-wide collaboration grant on low temperature plasmas, there are two post-doctoral research positions available. Both positions are based at Auburn University, but may involve travel to collaborating institutions around the state of Alabama.

Position 1: This position will involve the design, operation, and diagnosis of low temperature plasma experiments that focus on the transport and stability of plasmas containing growing nanoparticles and microparticles (i.e., dusty plasmas). Experiments will be performed using tabletop devices and in the Magnetized Dusty Plasma Experiment – a high magnetic field, multi-user research facility at Auburn University (<http://psl.physics.auburn.edu>). The development of optical diagnostic tools (e.g., laser induced fluorescence, spectroscopy, high speed imaging, particle image velocimetry, etc.) for these experiments will be a central component of this work. The contact for this activity is Prof. Edward Thomas, Jr. (etjr@auburn.edu).

Position 2: This position will involve numerical simulations of planetary magnetosphere and ionosphere using a particle-fluid hybrid model. Experience in hybrid or fully kinetic particle-in-cell simulations is highly desirable. Interested candidates are encouraged to submit application according to the instructions and please refer to "Space Plasma Physics" in the cover letter. The contact person for this position is Dr. Yu Lin (linyu01@auburn.edu).

The **College of Sciences and Mathematics** at Auburn University located in Auburn AL (<http://www.auburn.edu/cosam>) is seeking candidates for the position of postdoctoral fellow in the sciences and mathematics. From time-to-time, postdoctoral positions become available under a variety of research grants and projects in the college. We are seeking applications from individuals with a Ph.D in any one area such as: biology, chemistry, geosciences, mathematics, statistics, physics or related fields. The candidates selected for these positions must be able to meet eligibility requirements to work in the United States at the time appointment is scheduled to begin and continue working legally for the proposed term of employment; and must possess excellent written and interpersonal communication skills. The positions are available for a minimum of one year as fulltime 12 month appointments, with renewal possible based on performance, need, and/or funding for a maximum of four years. These are non-tenure track positions. Salary will be commensurate with education and experience. Review of applications will begin after July 10th, 2017 and continue throughout the year as positions become available. Please upload curriculum vitae, statement of research interests, along with a list of three references and contact information at: <http://aufacultypositions.peopleadmin.com/postings/2347>

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