

Post-Doctoral Scholar/Research Associate in Experimental Low-Temperature Plasma

Applications are invited for a Post-Doctoral Scholar/Research Associate position at the University of Alabama in Huntsville (UAH) starting on or around January 2021.

Description: The successful applicant will be joining a collaborative project between UAH and Sandia National Laboratories (SNL) to study low-temperature plasmas at solid and liquid interfaces. The project is funded for a 3-year duration. This position primarily focuses on experimental measurements of plasmas from vacuum to atmospheric pressures. Periodic travel to SNL is required to collaborate with SNL researchers and use their diagnostics and facilities. The applicant will also participate in the NSF EPSCoR project in plasma science and engineering, CPU2AL (<https://www.uah.edu/cpu2al>). CPU2AL is a collaboration between 9 Alabama universities and industry partners to conduct research in different areas of low-temperature plasma science and engineering from astrophysics to material science. Multi-disciplinary collaborations across campus are encouraged.

Qualifications and Duties: Successful applicants will have a background in experimental plasma research with a Ph.D. or equivalent qualifications in physics, engineering, or related fields. U.S. citizenship is required. Demonstrated experience in plasma diagnostics, especially optical diagnostics such as LIF, absorption spectroscopy, and emission spectroscopy is highly desired. In addition to carrying out the research to the highest standards, the successful applicant will be expected to work as part of a multidisciplinary team and prepare reports, presentations for conferences, and peer-reviewed journal papers. The successful applicant will also assist with proposal writing, student mentoring, and possible outreach events.

Applications from candidate who are nearing the completion of a relevant Ph.D. degree will be considered. Applications from female, minority, and underrepresented groups are strongly encouraged.

General inquiries and applications can send to Dr. Gabe Xu (gabe.xu@uah.edu). Applications should include a statement of interest, CV, and contact information for 2-3 professional references.

About the University: The University of Alabama in Huntsville, classified as a Higher Research Activity institution, offers academic and research programs in the Colleges of Nursing, Business, Engineering, Science, Education, Professional and Continuing Studies and Arts, Humanities & Social Sciences. Huntsville maintains one of the highest per capita incomes and standards of living in the Southeast. It is a national center of aerospace and high technology research. The Huntsville area is also home to more than 50 Fortune 500 companies, the Hudson Alpha Institute for Biotechnology, and several federal research facilities including NASA Marshall Space Flight Center and the Army's Missile Defense Agency, Material Command, and Space and Missile Defense Command. New manufacturing facilities include those owned by Blue Origin, GE Aviation, Toyota, and Mazda.