

Postdoctoral Position at Alabama Agricultural and Mechanical University in Low Temperature Plasma Applications in Agriculture

Description: A postdoctoral position is available in the Department of Biological and Environmental Sciences at the Alabama Agricultural and Mechanical University (AAMU). The candidate would work in the area of atmospheric pressure plasma treatment of agricultural produce and products with a focus on determining the mode of action. Specifically, the postdoctoral fellow will conduct objective oriented research in plasma applications in seeds and plants of economic crops species; poultry meat and eggs, and nitrogen enriched plasma water for use as a fertilizer and as a biocide. The selected candidate will be a member of the NSF EPSCoR interdisciplinary and multiinstitutional team (www.uah.edu/cpu2al), and will work under the supervision of the project directors at AAMU and the University of Alabama in Huntsville (UAH), and any other collaborator(s). The postdoctoral fellowship is initially for one year subject to annual renewal for two additional years based on candidate's productivity and availability of funds.

Duties and Responsibilities: The candidate will be expected to conceptualize, design, and conduct experiments that give rapid-results with potential for in-depth studies leading to a deeper understanding of the mode of action. The candidate will work closely with collaborators at UAH and private industry to address challenges in designing and building appropriate plasma equipment to suit the research objectives. The postdoctoral fellow is expected to produce high-quality journal publications, consult and assist other students in the lab, work with the PIs on proposals, and interface with other faculty and staff.

Qualifications: A Ph.D. in biophysics, plasma chemistry, agricultural science, or related fields with a strong background in biophysics is required. Preference will be given to candidates with prior experience in plasma applications in agriculture and soft biomatter. Good written and verbal communication skills are expected.

Salary & Benefits: Salary will be commensurate with qualifications and experience. Benefits available include group health, life, dental, disability insurance and a retirement plan.

Applicants should send 1) a letter of application describing how their training and experience qualify them to fulfill the requirements of this position; 2) a current curriculum vitae; 3) official transcript of all academic qualifications; and 4) names of three professional references with their e-mail addresses and telephone numbers to:

The Office of Human Resources, P. O. Box 305, Alabama A&M University, Normal, AL 35762. Refer to Position 174982. Minorities and women are encouraged to apply. Alabama A&M University is an affirmative action/equal opportunity employer.

Contact Information:
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About AAMU and Huntsville: Alabama Agricultural and Mechanical University is a public, comprehensive 1890 Land-Grant institution, committed to access and opportunity, and dedicated to intellectual inquiry. The university offers professional and continuing education in academic and research programs in the Colleges of Agricultural, Life, and Natural Sciences, Engineering, Technology, and Physical Sciences, Business and Public Affairs, and Education, Humanities, and Behavioral Sciences. The University offers contemporary baccalaureate, master's, educational specialist, and doctoral level degrees to prepare students for careers in the arts, sciences, business, engineering, education, agriculture and technology.

Huntsville, nicknamed The Rocket City for its close history with U.S. space missions remains the center of rocket-propulsion research in the U.S. with many aerospace and defense contractors' facilities located in the area. The city is home to the U.S. Army Aviation and Missile Command and NASA's Marshall Space Flight Center, which is located at the nearby Redstone Arsenal. Huntsville is also the location of Alabama A&M University, Oakwood University, University of Alabama in Huntsville and the J.F. Drake State Technical College. The city is also home to the U.S. Space & Rocket Center, which exhibits the only Saturn V rocket designated as a National Historical Landmark. The city of Huntsville maintains one of the highest per capita incomes and standards of living in the Southeast. A national center of aerospace and high technology research, Huntsville is known for a high concentration of Ph.D. degree holders STEM areas.