

**Project Title:**

Plasma stratification

Project Reference Code:

UAH-Kolobov

Host Facility:

The University of Alabama in Huntsville

Host Facility Location:

301 Sparkman Dr.

Huntsville, AL 35899

<https://www.uah.edu>

Project Description:

UAH is seeking a summer intern with background knowledge of plasma physics and good computer skills for computational studies of Plasma Stratification. Stratification is the self-organization of collisional plasma associated with the formation of striations (ionization waves) in gas discharges. The intern will participate in the ongoing research of plasma stratification and learn how to use engineering software (COMSOL) for simulations of low-temperature plasma. The intern will work closely with researchers from UAH and other ESPCoR institutions to apply computational tools for solving plasma problems of interest. Some qualifications are required in computing, visualization & data exploitation on Linux and Windows platforms. Work experience with MS Office applications for reporting and presentation of results is required.

Disciplines:

Physics of Gas discharges, Plasma Technologies, Computational Engineering

Is U.S. citizenship required to participate in this project?

No

Internship Location and COVID-19 related Backup Plan

The internship location is at the University of Alabama in Huntsville. We are planning for an in-person internship. However, due to the continuing COVID-19 pandemic, we are preparing additional options to ensure that the internship will take place, such as a hybrid or fully virtual option.

Name(s) of Mentor(s) and contact information:

Dr. Vladimir Kolobov, (vik0001@uah.edu)

Internship Coordinator/ HR manager:

Dana Waller (dsw0012@uah.edu)

The name and contact information of personnel at the host facility is provided for further assistance with questions regarding the host facility or the project.



Alabama Plasma Internship Program



Interns will not enter into an employee/employer relationship with the host facility. No commitment with regard to later employment is implied or should be inferred.