**Project Title:**
Studies of plasma-liquid interactions with CFD-ACE+

**Project Reference Code:**
ESI-Wang

**Host Facility:**
ESI US R&D Inc.

**Host Facility Location:**
620 Discovery Dr NW, STE 120, BLDG 2
Huntsville, AL 35806
http://www.esi-group.com

**Project Description:**
ESI group is seeking a summer intern with basic knowledge of plasma science and gas discharge physics to explore CFD-ACE+ software for simulations of plasma interactions with liquids. The intern will learn how to use and apply CFD-ACE+ software to solve specific problems of plasma and multiphase flow simulations. Background knowledge of engineering software and plasma physics is a plus. The intern will work closely with researchers from ESI group and other ESPCoR institutions to develop and apply CFD-ACE+ tools for solving plasma problems of interest. Some levels of qualifications are required in programming, 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, Computational Fluid Dynamics, Electrical and Computer Engineering

**Is U.S. citizenship required to participate in this project?**
No

**Internship Location and COVID-19 related Backup Plan**
Due to the COVID-19 pandemic, we are preparing multiple options to ensure that the internship will take place. We are looking at least at an in-person, hybrid, and fully virtual option. For any in-person component we will ensure that there is adequate physical spacing between workspaces, following all relevant cleaning protocols.

**Name(s) of Mentor(s) and contact information:**
Dr Jun-Chieh (Jerry) Wang (Jun-ChiehJerry.Wang@esi-group.com)
Dr. Vladimir Kolobov (vik0001@uah.edu) Phone: 256-726-4847

**Internship Coordinator/ HR manager:**
Jeanie Cotton (Jeanie.Cotton@esi-group.com)

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.
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.