



Corporate Internship Program on Plasma Technology Applications



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.



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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.