Project Title:
Plasma Simulations with Basilisk

Project Reference Code:
CFDRC1

Host Facility:
CFD Research Corporation

Host Facility Location:
6820 Moquin Dr
Huntsville, AL 35806
http://www.cfdrc.com/

Project Description:
CFDRC is seeking one intern with good knowledge of or willing to learn C, C++, Octave/Matlab programming languages or with skills to apply commercial software packages to multi-physics modeling. Some background knowledge of plasma, chemistry and laser physics and computational physics is a plus. The intern will learn how to program commercial quality, as well as research, software or to apply it to a variety of problems related to gas discharge and laser plasma physics, and run software on Linux platforms in HCP environment. The intern will work closely with researchers from the ESPCoR institutions to apply the computational tools to various problems of interest. Some level of qualifications are required in visualization & data exploitation on Linux and Windows platforms. Work experience with MS Office applications for reporting and presentation preparation is required.

Disciplines:
Gas Discharge Physics, Laser Physics, Computational Plasma Physics, Electrical and Computer Engineering

Is U.S. citizenship required to participate in this project?
Desired, but not required

Name(s) of Mentor(s) and contact information:
Vladimir Kolobov (vik@cfdrc.com)
Robert Arslanbekov (robert.arslanbekov@cfdrc.com)

Internship Coordinator/ HR manager:
Rick Wilbourn (rick.wilbourn@cfdrc.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.