



Corporate Internship Program on Plasma Technology Applications

Project Title:

Exploring Graphics Processing Units for Plasma Simulations

Hosting Site:

CFD Research Corporation

Huntsville, AL

<http://www.cfdrc.com/>

Project Description:

CFDRC is seeking one intern with good knowledge of or willing to learn CUDA and other programming languages to explore Graphics Processing Units (GPU) for simulations of low temperature plasma. The intern will either learn how to program some plasma equations on GPU or apply available software packages to solve specific problems. Some background knowledge of computer science and plasma physics is a plus. The intern will work closely with researchers from CFDRC and other ESPCoR institutions to develop and apply computational 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 preparation is required.

Disciplines:

Graphics Processing Units, Computer Science, Computational Plasma Physics, Electrical and Computer Engineering

Mentor(s):

Dr. Vladimir Kolobov, vik@cfdr.com, 256-726-4847

Dr. Robert Arslanbekov, rra@cfdr.com, 256-726-4808

Internship Coordinator: Rick Wilbourn, HR manager, 256-726-4901

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

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