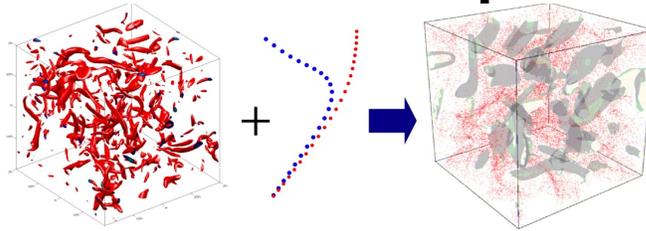


2011 Summer High Performance Computing Fellowship.



The UD Peta-Apps Cloud Physics research team invites undergraduate and graduate students at the University of Delaware to apply for summer research fellowships in high performance computing. Starting in the Fall of 2009, the interdisciplinary UD Peta-Apps Cloud Physics Team received a major National Science Foundation grant to bring together leading edge algorithms and computing hardware to study mesoscale cloud physics. To support and encourage students to pursue their interests in high performance and massively parallel computing, we will support a small number of graduate fellows and undergraduate fellows during the summer of 2012 to pursue independent research projects with a faculty adviser of their choice.

The fellowship will support computational science broadly defined, so summer projects need not involve cloud physics. To foster interdisciplinary interactions, preference will be given to students working with faculty outside of their degree program (e.g. a Mechanical Engineering major working with a faculty member from Physics) and preference will be given to vertically integrated projects (e.g. undergraduate students, graduate students, postdocs and faculty working together). Summer high-performance computing graduate fellows will receive a stipend and will be expected to write a brief report at the end of the summer summarizing fellowship activities. The graduate stipend is \$5,000, and the undergraduate stipend is \$4,000. Applications received by 14 March 2012 will receive full consideration.

A complete application includes:

1. A complete, signed cover sheet.
2. A research plan of no more than 3 pages in length. The research plan should include a description of the computational methods and techniques to be explored, a statement of the student's professional goals and their connection to the project, and a project timeline.
3. A statement from the faculty advisor outlining a mentoring plan for the fellow.
4. The student's vita or resume.
5. The student's unofficial transcript from Fall of 2011.

Application materials are available at <http://cloud-physics.udel.edu>. Please direct applications to Prof. Rossi (rossi@math.udel.edu).