Systems Teaching Institute
Educational Partner, University Affiliated Research Center, NASA Ames Research Center

Web Tool Development for NASA's Planetary Data Systems

NASA's Planetary Data System (PDS) archives and distributes scientific data from NASA planetary missions, astronomical observations, and laboratory measurements. Its purpose is to ensure the long-term usability of NASA data within the scientific community at large and to stimulate advanced research. We are looking for a student to help create new tools for planetary scientists and to maintain and enhance existing tools. These tools are primarily web-based applications that aid in the ingestion, distribution, visualization, and use of planetary data through PDS

The student work will consist of:

- Studying and analyzing PDS data formatting standards and practices
- Collaboration with engineers and scientists to create requirements, mockups, or prototypes of new PDS tools and features.
- Designing and developing web application tools
- Designing and developing of PDS library components
- Collaboration with other engineers in the review, maintenance, and enhancement of existing tools.
- Documentation of code and tools.

Eligibility

- Current enrollment in a relevant degree Program (Computer Science, Mathematics, Engineering, Astronomy, Physics)
- Hours: Standard Business Hours
- Ability to be on-site at Ames Research Center at least part-time.

Skills Required

- At least some formal education in computer science
- Experience in object oriented programming languages (Java preferred)
- Experience with HTML, CSS, JavaScript, and XML for web application development preferred
- Experience working with databases preferred
- Familiarity with common collaborative software development tools for version control, issue tracking, code review, and continuous build desirable

Please send a CV/resume and a cover letter by Friday, April 15, 2013 to:
Jennifer Victoria (jennifer.victoria@uarc.ucsc.edu) & Jay Nuez (jnuez@uarc.ucsc.edu)

For more information about the University Affiliated Research Center and the STI, please visit:
http://uarc.ucsc.edu/sti/