Summer Internships in Parallel Computational Science

The SIParCS Program at the National Center for Atmospheric Research is aimed at university students who are interested in pursuing a career in such areas as computational science, data analysis, geostatistics, computer science, visualization, and computational geosciences. The goal of the SIParCS program is to make a long-term, positive impact on the quality and diversity of the workforce needed to use and operate 21st century supercomputers. Graduate students and undergraduate students (who have completed their sophomore year by summer 2016) gain significant hands-on experience in high-performance computing and related fields that use HPC for scientific discovery and modeling.

This program embeds students as summer interns in the Computational and Information Systems Laboratory, an organization within NCAR charged with provisioning supercomputing and data systems to the geosciences research community. The roles of service and research in CISL support NCAR's broad scientific mission of discovery in the atmospheric and related sciences.

The program runs 11 weeks from May 16, 2016 to July 29, 2016.

Current Types of Internships
 · Application Development
 · Application Optimization
 · Computer Science
 · Data Science
 · Geostatistics
 · Visualization

Benefits
· $15.35/hour for undergraduate and $18.15 for graduate students
· UCAR casual benefits apply, including a regional bus pass, AD&D and Worker's Compensation coverage
· Housing is provided to interns at Bear Creek Apartments @ University of Colorado*
· One round-trip airfare or mileage, whichever is less, is provided from points of origin within the United States

 *Housing is subject to income tax, as determined on IRS Form W-4

Requirements for the Summer
 · Keep a research journal
 · Attend technical seminars
 · Attend skill-enhancing workshops
 · Give an oral presentation of results

Skills/Abilities for Internship
· Ability to work with a diverse group of peers
· Skill in the use of software for communication purposes (e.g. Word, Excel, PowerPoint, email)
· Ability and willingness to learn and use scientific computing tools and programs
· Good oral and written communication skills
· Basic problem solving skills
· Ability to analyze data and draw conclusions
· Potential to excel in a scientific career
· Basic knowledge of mathematics, computer science or engineering - through coursework
· Ability to work full-time during the summer program
· Ability to interact with mentors & peers in a manner to support collaboration and inquiry
· Ability and willingness to work within guidelines and policies of organization and assigned work groups

Eligibility Requirements
· Applicants must be available May 16 through July 29, 2016 to participate
· Must be a graduate student, or undergrad completed sophomore year
· Must currently be enrolled in a U.S. university
· Must be authorized to work in the U.S. to be eligible for the SIParCS program. For F visa students accepted to the SIParCS program, CPT work authorization issued through a U.S. Designated School Official (DSO) or OPT issued through both a DSO and the U.S. Citizen and Immigration Services (USCIS) will be required.

Application Deadline:
January 20, 2016 (4:00 pm MT)

Only complete applications will be considered. Please read and follow all instructions carefully.

If you have questions or limitations to using the online application system or questions about the process please contact siparcs@ucar.edu, (303) 497.1288.

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