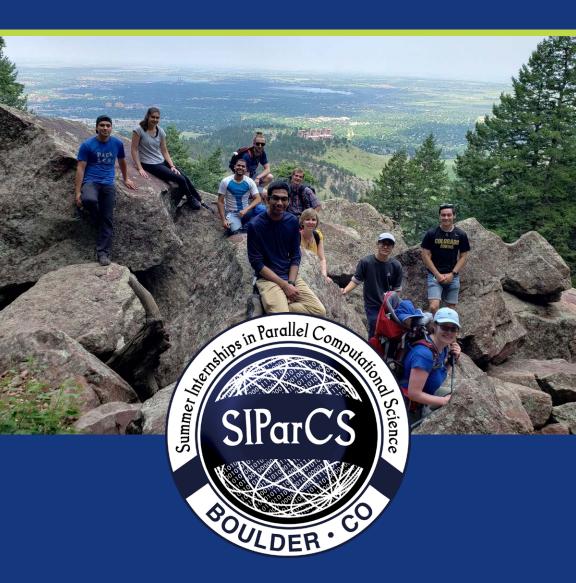
RESEARCH • MENTORING • OPPORTUNITY



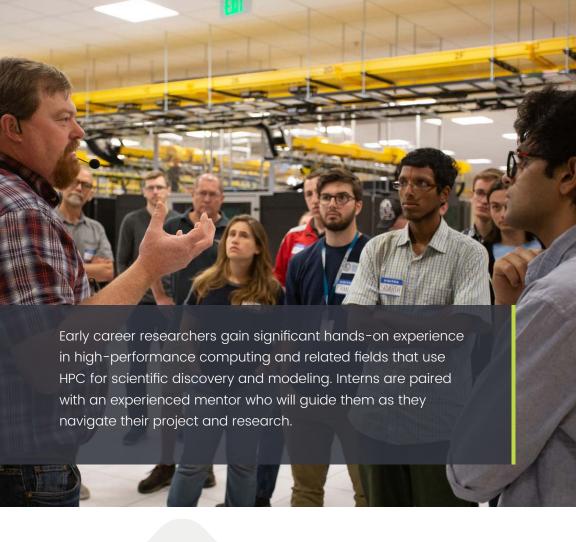


SIParCS Program

The goal of the SIParCS program is to make a longterm, positive impact on the quality and diversity of the workforce needed to use and operate 21st century supercomputers.

SIParCS students serve as paid summer interns in the National Center for Atmospheric Research's Computational and Information Systems Lab that provides supercomputing and data services for scientists studying the Sun-Earth System. SIParCS interns support NCAR's mission of scientific discovery in the atmosphere, hydrosphere, cryosphere, and biosphere, as well as in solar processes and their effects on the space surrounding the Earth.





EXAMPLE PROJECT AREAS

Application Development

Application Optimization

Machine Learning

Software Engineering

Data Science

Augmented Reality

Geostatistics

Data Visualization

Supercomputer Systems Operations

APPLICANT REQUIREMENTS

- Must be available for the specified program dates from mid-May through early August.
- Must be currently enrolled in a U.S. university as a graduate student or as an undergraduate beyond the sophomore level.
- Must be authorized to work in the U.S.

All applicants are considered relative to project-related factors. SIParCS and NCAR provide equal employment opportunities without regard to race, color, religion, gender identity, national origin, ancestry, age, marital status, sexual orientation, domestic partner status, physical or mental disability, or veteran status.



BENEFITS



Students work 40 hours per week and receive a competitive stipend.



SIParCS provides
a furnished suitestyle apartment,
transportation to and
from Boulder, CO, and a
regional bus pass.

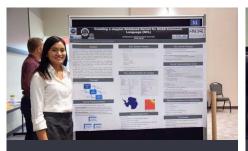


Students will have the opportunity to participate in professional development workshops and cohort trips.

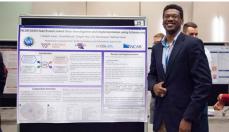
PREVIOUS STUDENT PROJECTS



SIParCS is based on a cohort model for a shared learning experience. Each intern has the opportunity to research and explore areas of HPC as it relates to their interests. Many alumni go on to earn advanced degrees, continue research, or work in the tech industry.



Creating a Jupyter Notebook Kernel for NCAR Command Language. Student: Aditi Shrestha, Southwestern Oklahoma State University



NCAR DASH Search and Linked Data: Investigation and Implementation using Schema.org. *Student: Josh Jones, Virginia Tech*



Deploying File System Performance Metrics
Through XSEDE Metrics on Demand (XDMoD).
Students: Bailey Kleespies, Colorado Mesa University
and Broday Walker, Midwestern State University



Using Cloud-Friendly Data Format in Earth System Models. *Student: Weile Wei, Louisiana* State University "I am very grateful to have participated in the SIParCS program. I consider it one of the major turning points in my life."



Contact Us

siparcs@ucar.edu 303-497-1288 cisl.ucar.edu/siparcs

Visit <u>cisl.ucar.edu/siparcs</u> for information about available projects, annual application timelines, or to sign up for our email list.

If you need assistance using the online application system or have questions about the application process please contact us at 303-497-1288.





