

SHERPA User Interface Developer Intern

Description:

An outstanding student intern (undergraduate or Masters) is being sought to join the team at NASA Ames working on an advanced AI-based planning and decision support system for space missions. The system is currently employed in various roles on several upcoming space missions. The intern will be involved in the software development of front-end user interfaces, core AI reasoning algorithms, and algorithms for data processing. This is a continuous, year-round internship position, with a 15-20 hours/week commitment.

Required Skills:

- Excellent programming skills with one or more of modern computer languages (e.g., Julia, Python, C++, C#)
- Experience using industry-standard software engineering tools (debuggers, profilers, version control, etc.)
- Excellent communication and teamwork skills

Other Desired Skills:

- Experience with OpenGL
- Experience with the Julia programming language
- C++ experience
- Front-end development experience
- Background in computational decision making under uncertainty
- Background in probability and statistics

U.S. CITIZENSHIP OR PERMANENT RESIDENCY REQUIRED.

Read about SHERPA (System Health Enabled Real-time Planning Advisor):

<https://www.nasa.gov/blogs/missions/2023/12/01/part-1-artificial-intelligence-and-nasas-first-robotic-lunar-rover/>

SHERPA was originally designed for the now-cancelled VIPER lunar rover mission, but it has been repurposed for other spacecraft.

Send resumes to Ron Mak (ron.mak@sjsu.edu) who does the initial screening. Make sure your relevant skills are near the top. The best candidates will be interviewed by the NASA project managers.