

Job ID: 5
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Rover Computer Engineer Internship

Earthrise Space Foundation, Inc. (ESF) is a 501(c)3 non-profit research lab dedicated to developing space technology in collaboration with industry and academic institutions. Our goal is to provide students with hands-on experience in the areas of simulation, Science, Technology, Engineering, and Mathematics (STEM). ESF is currently pursuing the Google Lunar X PRIZE and has an Innovative Lunar Demonstrations Data (ILDD) Contract from NASA.

A majority of the requirements for our mission and the ILDD Contract require simulations for terrain mapping, mechanical analysis, orbital mechanics, data acquisition and data generation. MATLAB, Simulink, NI LabVIEW, Satellite Tool Kit/AGI, SolidWorks, CATIA, and ANSYS are a few of the software packages that ESF utilizes for simulation purposes.

ESF Facility Location:

3251 Progress Drive
Suite D, Room 205
Orlando, FL 32826

Job Description:

This Computer Engineering position is responsible for designing a radiation tolerant computer system for the Lunar Rover. This computer system is required to receive commands, record and return HD video, panoramic pictures and stream near-real time video.

Responsibilities:

- Design computer system for the Lunar Rover
- Ensure the computer system is compatible with space qualified sensors and electrical components
- Assist in designing the camera system
- Comply with ITAR and EAR.

Requirements:

- Must be a US citizen
- Must be proficient in designing computer systems for robotics.
- Must be willing to learn about the space radiation environment.
- NI LabVIEW, Matlab, Microsoft OneNote, Outlook, Excel and Word are a plus
- Must be pursuing a degree in Computer Engineering, Computer Science, or a related major from an accredited university
- Strong ethics and teamwork skills

This position is unpaid

Send your resume to Internships@earthrise-space.org, be sure to tell us the name of the position and the Job ID you are applying for.