

Job ID: 3  
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### **Mechanical 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, are a few of the software packages that ESF utilizes for simulation purposes.

#### ***ESF Facility Location:***

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

#### ***Job Description:***

This position is responsible for the simulation and finite element analysis of various components and assemblies for the Omega Envoy Project. The intern will also be responsible to assist in CAD of various components.

#### ***Responsibilities:***

- Ensure that all individual components of the lander and rover meet factor of safety requirements
- Ensure that entire assembly of the lander and rover meets factor of safety requirements
- Provide structural FEA for both the lander team and rover team.
- Assist engineers in design changes to improve the product.
- Comply with ITAR and EAR.

#### ***Requirements (Minimum 2 year experience):***

- Must be a US citizen
- Proficient in SolidWorks, ANSYS products, Microsoft Word, Excel, PowerPoint
- CATIA, Matlab, OneNote, Satellite Tool Kit are a plus
- Must be pursuing an Aerospace or Mechanical Engineering Degree from an accredited university
- Must have strong ethics, self-motivated, and excellent teamwork skills

This position is unpaid

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