Fall/Spring College Intern-High Performance Computing Req 59502

**Ideal candidate:**

- Have working knowledge of various scripting languages, such as Ruby, Python, MAT Lab, Perl, Bash, and Sequel
- Be familiar with Linux operating systems (SuSe, RedHat, Ubuntu, Fedora)
- Experience with robotics, electronic systems, hardware assembly
- Utilize command line skills and system integration

**Principal Duties and Responsibilities:**

**Position Purpose:**
Assist administrators in the High Performance Computing (HPC) team in providing operational support for the HPC environment. Drawing upon the operating plan and following the guidance of more senior HPC technical staff to leverage enabling technologies to meet the desired goals, objectives and strategies of the Computational Fluid Dynamics, Simulation, modeling and overall engineering business areas. Assists HPC administrators with the optimum integration of business applications with high performance computing technology.

**Essential Functions:**
1. Assists in the diagnostics and repair of hardware related issues on Linux servers and workstations.
2. Reviews and responds to helpdesk tickets.
3. Maintain the HPC environment documentation.
4. Configures and deploys engineering Linux workstations following standard procedures.
5. Attends webinars and other events to gain additional knowledge of High Performance Computing.
6. Writes scripts in Practical Extraction & Reporting Language (PERL), Bourne Again Shell (BASH) and other appropriate scripting languages under the guidance of more senior HPC administrators.
7. Assists senior technical staff during upgrades and outages.
8. Assume responsibility for tasks as assigned within the HPC team
9. Follow predetermined action and escalation procedures when issues are encountered.
10. Assists in the introduction of new technologies that can provide greater capabilities, improved productivity or reduce total cost of ownership

**Additional Functions:**
1. Work multiple operational windows as required to support business objectives.
2. Assists with performing proofs of concept and prototyping solutions, if applicable.
3. Perform other duties as assigned.
Education and Experience Requirements:

1. Currently pursuing or just completed (August 2015) a degree in Engineering, Computer Science, related curriculum with a focus on HPC with a minimum GPA of 2.8 (must be listed on the submitted resume)

2. Demonstrated experience with installation, configuration, and maintenance of RPM-based Linux distributions (RedHat, SuSE).

3. Familiarity with troubleshooting PC Components.

4. Must have transportation to and from work.

5. Must be able to work at least 16 hours the remainder of the Fall 2015 and at least 20 hours per week through January 2016. 40 hours highly desired.

Problem Resolution Opportunities:
1. Continually challenged to resolve performance and customer issues, under the oversight of senior technical staff.
2. Comfortable asking questions.
3. Eager to learn new skills/technologies.

Communications Skills:
1. Regularly interface with Gulfstream Engineering Management and Information Technology Management, Flight Sciences engineers and scientists, internal/external partners, as well as functional department management & staff in a professional manner.
2. Good client relations skills and customer service orientation.
3. Excellent written and verbal communication skills.
4. Excellent interpersonal skills (e.g. listening, tact/diplomacy)
5. Follows technical guidance of more senior administrators to ensure technical excellence and high levels of customer satisfaction.