

Senior Software Safety Engineer

J&P is currently seeking a Senior Software Safety Engineer in support of the NASA JSC Safety and Mission Assurance Engineering Contract II (SMAEC II).

Job Description

Assure that software safety design and operations specifications and products meet NASA's International Space Station Program (ISSP), Artemis, and Gateway Programs Safety & Mission Assurance (S&MA) software safety requirements. This position also includes support to the next generation Extravehicular Mobility Unit (xEMU) development that will be used onboard the ISS, Gateway, as well as on the lunar surface during NASA's return to the moon Artemis missions.

- Assess the ISS, Gateway, xEMU software and avionics development, test, verification, and change products and identify problems and non-compliances.
- Ensure compliance with Computer Based Controls System Safety Requirements (SSP 50038B), ISS System Specifications (SSP 41000) and ISS Safety Requirements Document (50021) and applicable NASA standards (7150, 8719, 8739).
- Develop and maintain S&MA products such as Integrated Hazard Assessments, Failure modes and Effects Analysis, and other risk identification and acceptance products.
- Prepare reports, present findings of assessments and evaluations, and provide recommendations to the project and program management.
- Participate in on-orbit anomaly assessment process and evaluate safety compliance of proposed on-orbit software modifications.
- Participate in, and represent software S&MA assurance, as appropriate and as required in working groups, panels and boards in order to perform the above described tasks.

Required Skills:

- Education: Minimum Bachelor of Science degree in engineering/computer science or related field.
- +10 Years' Experience in software systems development and analysis including safety assurance of complex software systems.
- Must possess excellent oral and written communication skills, good interpersonal skills and the ability to coordinate and evaluate the significance of multiple complex systems to the safety of software applications.
- Must be able to obtain "Public Trust" security clearance.

Desired Skills:

- A working knowledge of NASA JSC S&MA processes. Experience in the NASA JSC ISS safety, reliability, and mission assurance environment.
- Experience and understanding of the safety review process, a working knowledge of basic NASA
- ISS software development and integration processes, and familiarity with software safety documentation, requirements and specifications.
- Experience should include the development and assurance of software systems related to NASA human space flight.

Job Location

Houston, TX US