Title: Lead Software Developer

Location: Tucson, AZ

Employee Type: Full-Time

Hours Per Week: 40

Travel: Occasional

Relocation Covered: Possible

Desired Start Date: As soon as possible

Salary: $90,000 - $100,000 DOE

Benefits: Medical and dental insurance, life insurance, disability, retirement plan, and more.

PSI will not sponsor applicants for work visas.

Summary Job Description:
The Planetary Science Institute (PSI) is seeking to hire a Lead Software Developer who will be responsible for developing and maintaining PSI's web-based financial systems and lead a small team in similar efforts.

Work Environment:
PSI is a virtual organization with over 180 members dispersed across many states and countries. There is a main office in Tucson, AZ and a satellite office in Lakewood, CO. The main server room and collocation facilities are in Tucson. All three sites are linked via a Layer 2 tunnel. There is a mixture of onsite hardware and cloud-hosted services. PSI also has an onsite high-performance computing cluster.

Primary Responsibilities/Activities:
- Collaborating with management, departments, and staff to identify and capture end-user requirements and specifications.
- Designing algorithms and diagrams for new software programs and systems.
- Producing efficient and elegant code following industry standards and best practices.
- Testing and deploying applications.
- Troubleshooting, debugging, maintaining, and improving existing software.
- Compile and assess feedback from users to recommend improvements to existing software products.
- Developing software architecture and technical documentation to guide future software development projects.
- Supervise software developers working on various projects.

Note: Management may assign or reassign duties and responsibilities to this job at any time.

Required Knowledge, Skills, and Abilities:
- Experience with Agile development methodologies.
- Full stack development experience.
- Experience with Windows and Linux environments.
- Strong experience with C#/.NET; Java web app experience helpful.
- JavaScript and other client-side frameworks such as Vue.js.
- Experience with Azure Cloud services including but not limited to Azure AD.
- Tomcat server experience helpful.
- Experience with relational databases (PostgreSQL strongly preferred).
- Experience with process automation (e.g., scheduled tasks/cron).
- Ability to oversee others and provide direction.
- Ability to communicate effectively verbally and in writing.

Preferred Knowledge, Skills, and Abilities:
- Experience migrating on-premises applications to cloud hosting.

Minimum Qualifications:
Bachelors or higher in computer science or related field AND three years of related experience; OR, any equivalent combination of experience, training and/or education.

Must be able to perform essential physical, mental, and environmental conditions of the job:
- Mobility: frequent use of keyboard and mouse; frequent sitting for long periods of time.
- Physical: may need to carry and lift equipment up to 50 pounds and push or pull equipment on a hand truck or cart of up to 100 pounds. It may be necessary to bend, kneel, and reach to connect and disconnect equipment. It may be necessary to handle objects to build computer racks and shelves. Some tasks may require the use of a foot stool or step ladder.
- Vision: constant use of overall vision; frequent reading and close-up work; frequent color and occasional depth vision.
- Dexterity: frequent repetitive motion.
- Hearing/Talking: frequent hearing and talking, in-person and on the phone.
- Emotional/Psychological: frequent decision-making and concentration; frequent independent work and learning; frequent coordination of tasks with other co-workers; occasional off-hours responsibilities; may on occasion need to speak to groups.
- Reading/Comprehension: frequent interpretation and understanding of written (print and electronic) technical documentation, reports, web research results and user requests.
- Environmental: periodic exposure to noise and cold in the server room.

To apply for the position:
If you are interested in applying for this position, have the required skills, and you meet the minimum qualifications, please submit the following documents to apply@psi.edu:
- A cover letter that addresses your interest and qualifications for this position.
- Resume
- Completed Application and Voluntary Self-Identification form (can be found on www.psi.edu or by sending a request to apply@psi.edu).

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The Planetary Science Institute is a private, nonprofit 501(c)(3) corporation dedicated to Solar System exploration. It is headquartered in Tucson, Arizona, where it was founded in 1972. PSI scientists are involved in NASA and international missions, the study of Mars and other planets, the Moon, asteroids, comets, interplanetary dust, impact physics, the origin of the Solar System, extra-solar planet formation, dynamic evolution of planetary systems, the rise of life, and other areas of research. They conduct fieldwork on all continents around the world. They also are actively involved in science education and public outreach through school programs, children's books, popular science books and art. PSI scientists and educators are based in 31 states and the District of Columbia, and work from various international locations.