



## **Software Engineer IV, Technical Lead**

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Join UNAVCO as a Senior Software Engineer and Technical Lead and collaborate with a team of developers, system administrators and geodetic science leaders to transform UNAVCO's software development culture and practices. UNAVCO has a new opportunity for an experienced software engineer, agile aficionado, and project management guru.

If you are thinking..."What would it take to modernize, harmonize, and enhance of UNAVCO's extensive portfolio of geophysical data management systems that were built over the last 30 years? That sounds like a good challenge!" *We would like to talk to you!*

If you are thinking..."How would I lead the UNAVCO team through this transformation while delivering results in alignment with UNAVCO's mission? I could do that!" *We would like to talk to you!*

Our long-term success depends on development of a forward-looking, diversified workforce that draws on and cultivates talent across the demographic spectrum of gender and ethnicity, across international boundaries, and across scientific disciplines.

Learn about UNAVCO on YouTube at: <https://www.youtube.com/watch?v=yxLMk120vMU>

UNAVCO is an Equal Employment Opportunity and Affirmative Action Employer  
Male/Female/Disabled/Veteran

### **Position Overview**

This position is regular fulltime and will be an integral member of the GDS Leadership Team and UNAVCO Project Management Team  
Salary Range: \$90,000 - \$134,000

UNAVCO offers a very competitive total compensation package including Medical, Dental, Vision, Life, STD, LTD, Supplemental Benefits, 4-weeks PTO, Retirement with a 10% employer contribution, RTD EcoPass, and onsite Fitness Center to name a few.

The Senior Software Engineer, Technical Lead is responsible for leading a team of software engineers, database administrators, and web developers who are responsible for the development and maintenance of a variety of systems in support of UNAVCO's geodetic operations, archive, community support, and UNAVCO's business systems. The Senior Software Engineer, Technical Lead interfaces with other UNAVCO teams and community members to facilitate requirements definition and is responsible for coordinating the software engineering team efforts in producing a cohesive set of products.

### **Experience, Skills and Knowledge, Position-specific**

The individual hired must have these skill levels in the associated knowledge areas:

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- Experience leading an agile development team and four years experience as a software engineering lead or manager, leading complex projects with within a matrix team environment.
- Experience leading complex projects with matrix teams
- Advanced level proficiency in:
  - Java language, including at least version 1.6
  - JEE 5 or later focusing specifically on JSF, Spring, servlets, Facelets, REST web services, and expression language
  - Database administration, preferably Postgresql
  - SQL
  - Unix or Linux environment development and writing shell scripts
- Demonstrated proficiency in:
  - Tomcat and understanding of the Apache web server
  - Subversion or Git
  - Build tool such as Ant, Maven, or Gradle
  - IDE preferably Eclipse or NetBeans
  - HTML, XML, and Javascript
  - Python
  - Experience building an application using Hibernate or JPA annotations.

**Education**

- Bachelor's degree in Computer Science or Information Systems and 10 years experience in software engineering OR equivalent combination of education and experience.

**How to Apply**

Visit our website at [www.unavco.org](http://www.unavco.org) for more information about geodesy and our work. If you are interested in joining our team apply online at [www.unavco.org/careers](http://www.unavco.org/careers). Please submit a Letter of Interest, Resume and 3 Professional References with your application. Please no calls from agencies or recruiters. The deadline for applications is Friday, February 21, 2014 at 5:00 p.m. Mountain Time.

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**Position Description****Purpose**

The Senior Software Engineer, Technical Lead is responsible for leading a team of software engineers, database administrators, and web developers who are responsible for the development and maintenance of a variety of systems in support of UNAVCO's geodetic operations, archive, community support, and UNAVCO's business systems. The Senior Software Engineer, Technical Lead interfaces with other UNAVCO teams and community members to facilitate requirements definition and is responsible for coordinating the software engineering team efforts in producing a cohesive set of products.

**Essential Responsibilities****Software Engineering and Project Management**

- Lead UNAVCO's agile development process.
- Oversee and participate in continued operation and development of the PBO network data collection system and delivery of data to the UNAVCO archive team.
- Oversee and participate in the continued development and operation of the geodetic station metadata maintenance system and database.
- Oversee and participate in the development of web services that provide access to geodetic station data and metadata to the user community.
- Oversee and participate in development of new geodetic data visualization tools.
- Oversee database administration and enhancements including optimization databases that support UNAVCO applications.
- Oversee and participate in the growth and migration of UNAVCO's web presence that provides the user community access to information on UNAVCO's operations, events, geodetic data, geodetic instruments, educational opportunities, and related science.

**Other Duties**

- Keeps abreast of current technologies and best practices and introduces them as appropriate into the UNAVCO development environment.
- Continually makes an effort to become familiar with all the activities UNAVCO personnel perform and the science of Geodesy.
- Occasionally travel offsite as needed to attend technical meetings that may influence the development of software at UNAVCO.
- Other duties as assigned.

**Working Relationships****Internal**

- Regularly collaborates closely with archive development team, field engineers, systems administration, and management to identify new requirements and required operational improvements.

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- Consults with Business Affairs management and staff to address issues and new requirements for corresponding systems.
- Works closely with and assists team members in their development and operational efforts..

**External**

- Interface with members of the user community to address issues and new requirements.
- Work with software and hardware vendors to evaluate new products, and renew licenses on existing products

**Supervision**

- Reports to the Manager, Software Engineering & System Administration and provides technical supervision to other team members.

**Job Qualifications**

**UNAVCO Core Competencies**

- Accountability and Responsibility
- Relationship Building
- Skilled Problem Solver
- Customer Focus
- Strategic Thinking
- Builds Talent
- Business Acumen

**Skills and Knowledge**

- Minimum 10 years experience with the Java language, including at least version 1.6
- Minimum 5 years experience with JEE 5 or later focusing specifically on JSF, Spring, servlets, Facelets, REST web services, and expression language
- Minimum 5 years experience with SQL
- Experience with database administration, preferably Postgresql
- Experience with Tomcat and understanding of the Apache web server
- Experience with Subversion or Git
- Experience with a build tool such as Ant, Maven, or Gradle
- Experience with any major IDE preferably Eclipse or NetBeans
- Knowledgeable with HTML, XML, and Javascript
- Familiarity with Python
- 5 years experience in developing in a Unix or Linux environment and writing shell scripts
- Experience building an application using Hibernate or JPA annotations

**Education and Work Experience**

- Bachelor's degree in Computer Science or Information Systems and 10 years experience in software engineering OR equivalent combination of education and experience.
- 4 years experience as a software engineering lead or manager, leading complex projects with within a matrix team environment.
- Experience leading an agile development team.

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**Working Conditions**

**Physical Work Demands**

- Able to sit and/or stand to work at a computer for extended periods of time.
- Able to move about a typical office environment on a daily basis.
- Able to lift and move up to 10 pounds occasionally.
- Regular and on-time attendance; hours may exceed 40 hours per week.
- Occasional travel by conventional means including aircraft, motor vehicle and the like.

**Mental Work Demands**

- Ability to understand complex problems and to collaborate and explore alternative solutions.
- Ability to organize and prioritize work schedules for self.
- Ability to compute, analyze and interpret data.
- Ability to make decisions which have minimal impact on the function and UNAVCO.

**Note:** To perform this position successfully, an individual must be able to perform each essential responsibility satisfactorily. The requirements listed above are representative of knowledge, skill, and/or ability required and are not intended to be an exhaustive list of all duties, responsibilities or qualifications associated with this position.

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