



“Providing a Balanced Approach to Natural Resource Management”

Position: Statistician/Programmer I

Northwest Management, Inc., a full-service natural resource consulting firm based in Moscow, Idaho, is seeking resumes from motivated individuals looking to work in a high-impact field of innovation and technology. Our team is seeking an experienced programmer (Python) with a foundation in applied statistics. Experience in testing and development of processes related to the analysis and use of large geospatial datasets (Multi-TB) is preferred. This position is responsible for designing and testing automated data pipelines, statistical modeling, and method/product documentation. Developing, troubleshooting, and validating custom-built, innovative programs to interpret and analyze LiDAR data, as well as graphical and statistical presentation of these data/methods. From the synthesis of scientific-publication level research to breaking ground in custom geospatial applications, this position works within a team of enthusiastic specialists who apply innovative ideas to extract useful information from LiDAR and other remotely sensed data. Expertise in design, development, implementation, and documentation are a must. Communication and innovation at every level is encouraged.

Status: Full Time, Salary, Professional Exempt

Salary: DOE

Time Frame: Starting As Soon As Available

Location: This position will report to our corporate office in Moscow, Idaho. Regular work will occur within the Moscow office computer lab. There will be occasional remote-work assignments, dictated by project needs.

Direction: This position will work under the direct supervision of the Technical Services Manager.

Primary Duties Include:

- Code, test, QAQC and apply statistical models for geospatial and data-mining applications with LiDAR data on natural landscapes.
- Develop innovative methods for answering client requests with LiDAR data, and expand the team's applications of these data in natural resource management and stewardship.
- Analyze and resolve technical, mathematical, and statistical problems.
- Write functional and detailed design documentation, program specifications, test plans, and other system documentation.
- Independently recognize and resolve methodological and/or conceptual errors within our workflows.
- Maintains integrity of program logic and style and establishes required checks and balances for operational controls.
- Participate as a team member to plan, design, develop, test, and continually improve the quality and efficiency of products.

- Continue to expand the technical services network through targeted participation in promotional activities, proposal development, budgeting and project management related to remote sensing and GIS, as requested.

Minimum Qualifications:

- An MS or PhD degree in applied statistics, applied mathematics, computer science, or similarly highly technical field with research related to the natural environment, and a minimum 2 years' experience in data analysis, software development, and/or statistical modeling.
- Highly skilled with Python, C/C++, and/or R.
- Demonstrated ability to design, develop, test, document, apply, and explain, statistical/mathematical methods to extract actionable information from large, complex data sets that include 3D point clouds.
- Demonstrated ability to create and interpret complex statistical models and their predictions.
- Demonstrated background in statistical accuracy-testing and modeling.

Additional Desirable Qualifications:

- Demonstrated expertise in neural networks, computer vision, data mining, machine learning, and/or computer science. Experience with machine learning methods and tools including scikitlearn and keras.
- Experience working with remote sensing data (Imagery, Radar, etc.) and geospatial data structures in Python.
- Experience with LiDAR data; manipulation, acquisition technology and/or software applications in Python.
- Publication experience as a lead author in a scientific peer-reviewed journal.
- Experience in biometrics, forest growth modeling, or other forestry related work.
- Data visualization skills.
- Experience with relational databases and SQL, SQLite, and/or PostgreSQL.

The majority of work for this position occurs in a professional office environment. This position must regularly lift 15 pounds and occasionally lift and move up to 40 pounds. This position is occasionally required to stand; walk; climb or balance and stoop, kneel, crouch, or crawl in the outdoors, on uneven terrain and in inclement weather while operating technical data-collection equipment. The geographic working area is predominantly in the Inland Northwest; however, the operating area for this position includes the continental U.S. and occasional international travel.

If you are interested in this position please submit an application to Tierra Moser, NMI Human Resources at moser@nmi2.com.

Closing Date: As soon as filled, 2022

If you have direct questions about the position please contact:
Mark Corrao (Tech Services Manager)
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