



Scientific Programmer

This role supports an implementation function in the forest biometrics team. The Scientific Programmer works closely with a Research Biometrician to operationalize decision support aids. Operationalizing decision support aids requires translating prototype modeling systems and processes from statistical computing languages like R into corporate software and processes. This effort is continuous and requires significant focus on verifying software outputs, through cross-validation exercises in coordination with a Research Biometrician. Business software and processes may be conveyed through the web, as executable processes or graphical user interfaces. The Scientific Programmer must engage with Rayonier IT and business users to design tools using the approach that will be the most useful, requiring a high degree of creativity and excellent communication skills. The Scientific Programmer will also assist the forest biometrics team in growth model evaluations, which may require review of modeling systems coded in Fortran and compilation using suites like MinGW. Rayonier's forest biometrics team has a broad program of applied research and development, including utilization of remotely sensed data. The Scientific Programmer will assist in developing processes around the analysis, interpretation and processing of remote sensed data, including LiDAR. This role will present numerous opportunities for the applicant to develop or expand understanding of applied forestry research and development.

Required Qualifications

- B.S. (Forestry, Computer Science or Mathematics)
- M.S. (Forestry, Computer Science or Mathematics)
- 5 years of experience in forestry or related industry
- Programming Languages: C#, C, C++, VB NET, MS SQL, R, Fortran
- Code Control: Git or related experience with subversion
- Database Management experience (MS SQL, Access, etc)
- Moderate understanding of mathematics and statistics
- Geographic Information Systems, especially ArcGIS

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