Postdoctoral position in applying spatial tools for aquatic habitat predictions related to the upper extent of fish

A postdoctoral position is available to apply LiDAR and other spatial databases and tools in determining the upper extents of fish populations in western Oregon, western Washington, and northwestern California streams. These efforts will augment and extend the UPRLIMET (UPstream Regional LiDAR Model for Extent of Trout) model which predicts the upper distribution limits of Coastal Cutthroat Trout (*Oncorhynchus clarkii clarkii*) trout in western Oregon streams (Penaluna et al. 2022).

Penaluna, B.E., Burnett, J.D., Christiansen, K. et al. UPRLIMET: UPstream Regional LiDAR Model for Extent of Trout in stream networks. Sci Rep 12, 20266 (2022). https://doi.org/10.1038/s41598-022-23754-0.

Travel throughout the Pacific Northwest region described above for data collection and managing a field survey team will be required during four weeks of the initial summer of employment. Subsequent travel may also be required to expand the data initially collected. The position provides a competitive 12-month stipend with health insurance. The position is funded for three years (subject to performance) by the USDA Forest Service, Pacific Northwest Research Station with an academic home in the OSU Forest Engineering, Resources and Management Department (College of Forestry) starting September 30, 2023.

The successful candidate will be able to support the physical, digital, and analytical tasks required for augmenting the UPRLIMET model and publishing results in high-impact, peer-reviewed journals. Preferred research experience includes species-habitat modeling, hydrogeomorphic modeling, and landscape analyses of stream networks. Preferred software skills include Python, ArcGIS Pro, R statistical software, and experience managing large topographic and climatic databases.

Oregon State University is located in Corvallis, Oregon between Portland and Eugene. Ocean beaches, lakes, rivers, forests, high deserts, and the Coast and rugged Cascade Ranges are within a 100-mile drive of Corvallis. For information about the College of Forestry at OSU, visit http://www.cof.orst.edu/

Candidates must possess a PhD degree in Fish & Wildlife, Geomatics, or related field that supports spatial analysis of natural resource data, with a preference towards fish and aquatic experience. Interested candidates should email a letter addressing their research interests and qualifications, curriculum vitae including publications, and contact information for two references to: Michael.Wing@OregonState.edu.

For further details, please contact:

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Dr. Michael Wing
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Closing date: August 1, 2023 or until the position is filled.