



OREGON STATE
UNIVERSITY

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Telephone 541-737-2244 Fax 541-737-1393

Position Number: 002-950

POSTDOCTORAL RESEARCH ASSOCIATE
Spatial Modeler for Interdisciplinary Project

STARTING DATE: February 15, 2002

APPLICATION CLOSING DATE: For full consideration apply by December 15, 2001

CONTEXT: We seek a Post-Doctoral Research Associate to participate in the new three-year phase of a long-term research project. The project examines the causes and consequences of land-cover and land-use change (LCLUC) for regional carbon balance in two forest regions with contrasting land-use history and active ongoing changes in land management: Western Oregon, U.S.A. and St. Petersburg region in northwestern Russia. Past studies of carbon dynamics in these two regions successfully integrated remote sensing technology with ground data for a comprehensive assessment of changes in regional carbon stores. The major goal of this new phase of research is to integrate socio-economic drivers into the analysis of present and projected future LCLUC processes and associated changes in carbon stores.

RESPONSIBILITIES: The Research Associate will have the primary responsibility for developing linkages between the set of models that simulate forest carbon stores and a spatial economic model of land use change. Other specific tasks include (i) parameterization, testing, and corroboration of spatial and non-spatial carbon models; (ii) application and testing of spatial results from an economic model of land use, incorporating rule sets about other human activities on the regional landscape (e.g., timber harvest); and (iii) developing estimates of regional carbon stores based on forest inventory data for comparison with estimates based on remote-sensing. The incumbent will work with five project PIs on our interdisciplinary team to ensure the integration of all the project components. S/he will also collaborate with Russian scientists on data compilation for the St. Petersburg region and participate in manuscript preparation for peer-reviewed publications.

QUALIFICATIONS: Ph.D. degree in forest science; ecology; geography; forest resources; forest, land, or natural resource economics; remote sensing; environmental sciences; geostatistics or other disciplines relevant to project objectives is required. The applicants must have experience with spatial modeling, including running, testing and preferably developing such models. Background in two or more of the listed disciplines, understanding of carbon cycling processes, skills in statistical analysis, experience with data management, demonstrated ability in writing papers for publication, familiarity with C++, Imagine, ArcInfo, General Algebraic Modeling System (GAMS) and/or image processing software is highly desired. Russian language skills or background in Russian studies is a plus.

EMPLOYMENT CONDITIONS: Full-time (1.0 FTE) fixed term position. Salary \$38,004-39,984, depending on qualifications. Reappointment at the discretion of the Dean.

OTHER BENEFITS: Competitive medical, dental, and life insurance plans.

FOR MORE INFORMATION: Contact Olga Krankina, Department of Forest Science, Oregon State University, Corvallis, OR 97331; email: Olga.Krankina@orst.edu, fax 541-737-1393.

UNIVERSITY AND COMMUNITY: OSU is one of only ten American universities to hold the Land Grant, Sea Grant, and Space Grant designation, and is a Carnegie Doctoral/Research-Extensive university. OSU is located in Corvallis, a community of 50,000 people situated in the Willamette Valley between Portland and Eugene. Ocean beaches, lakes, rivers, forests, high desert, and the rugged Cascade and Coast Ranges are all within a 100-mile drive of Corvallis. Approximately 13,800 undergraduate and 3,000 graduate students are enrolled at OSU, including 2,300 U.S. students of color, and 1,200 international students. The university has an institution-wide commitment to diversity and multiculturalism, and provides a welcoming atmosphere with unique professional opportunities for leaders who are women and people of color. All are encouraged to apply.

TO APPLY: For full consideration send a letter of application, curriculum vitae, transcripts, and names of at least three references with affiliations, mailing addresses, phone/fax and e-mail addresses by December 15, 2001. In the letter please explain how your experience, training, and professional goals will apply to this project. Please include reprints of papers from previous research (up to 3). These should be sent to:

Glenda Serpa
Department of Forest Science
Oregon State University
321 Richardson Hall
Corvallis, OR 97331-7501

Oregon State University is an Affirmative Action/Equal Employment Opportunity employer and has a policy of being responsive to the needs of dual-career couples.