SPATIAL ANALYST

Location: University of Alaska Southeast. The position is housed in the Spatial Ecosystem Analysis Lab (SEALAB), a node of the Geographic Information Network of Alaska (GINA), on the Auke Bay campus location, Juneau, Alaska.

Salary: $22.13/hr or $46,030 per annum w/ benefit eligibility after a 6 month retention period

Duration: Full time 40hrs/week, beginning July 1, 2011 for a one-year term. The position is annually renewable based on funding availability.

Job Description: The spatial analyst will assist the PI on several projects relating to biogeographical modeling, quantitative and spatial ecology, and GIS/Remote Sensing. Specifically, the duties of this position will be assistance with spatial analysis/GIS (70%) and statistical analysis and publication support (20%), and generic assistance with project coordination and administration (10%), with a variety of possible projects:

- Modeling of current and future species distribution patterns and vulnerabilities across Alaska; as part of the Alaska GAP Analysis Project
- Spatial analysis of large-whale distribution data; and spatial (random-walk) modeling of ship-strike risk potential in Southeast Alaska
- Forecasting spatiotemporal shifts in salmon phenology due to climatic change
- Assessing the sensitivity of Alaska's coastal rainforest ecosystem to changes in glacier runoff
- Deriving spatial models of historical and contemporary landscape linkages in Southeast Alaska to support studies of paleogeography, historical phylogeography and connectivity
- Assistance with occupancy-based models of wildlife distribution
- Spatial analysis of changes in subalpine ecosystems and treeline distribution

Criteria. The *ideal* candidate has:
- A master's degree in relevant field
- Previous *analytical-level* experience with GIS and skills in <u>quantitative, raster-based</u> GIS analysis; candidates should provide direct evidence of having these skills
- Experience with quantitative analysis, with knowledge of multivariate statistics
- Knowledge of sampling and experimental/survey design
- Demonstrated ability to be self directed and productive in a multi-tasking role
- Familiarity with relational databases
- Experience with ArcGIS suite software, Microsoft Excel, Microsoft Access, and common statistical packages (e.g. SPSS, SAS, R, etc.)
- Capability to learn scripting and programming

Target start date: July 2011. Open until filled.

To apply: send your CV, references, and letter of interest that includes a summary of technical qualifications via email to Dr. Sanjay Pyare at the University of Alaska Southeast:
<u>sanjay.pyare@uas.alaska.edu</u> **907-796-6007**