Postdoctoral Fellow in Genotype-to-Phenotype Agent-Based Modeling, University of Idaho

A Postdoctoral Research Associate position is available at the University of Idaho in the recently funded NSF-EPSCoR GEM3 program (https://www.idahogem3.org/). The successful candidate will be advised by Dr. Chris Caudill with support from collaborating faculty Drs. Lisette Waits and Paul Hohenlohe. The position will be in the Department of Fish and Wildlife Sciences in the College of Natural Resources and associated with the Center for Modeling Complex Interactions (CMCI; https://www.cmciuidaho.org/) and the Institute for Bioinformatics and Evolutionary Studies (IBEST; https://www.ibest.uidaho.edu/).

The program seeks to understand how genetic diversity and phenotypic plasticity affect species response to environmental change, shaping both population response and adaptive capacity. Two focal taxa will be under study: one aquatic (redband trout, a subspecies of rainbow trout) and one terrestrial (sagebrush). These taxa are integral to ecosystems in the American West and are central to land-use management decisions that drive the economy of the region.

The selected candidate will initially focus on trout with the aim of generating agent-based models (ABM) to develop and test hypotheses about the role of genotype-by-environment interactions on the fitness, demography, and adaptive capacity of populations spanning climatic and landscape gradients.

The position will be hired into an interdisciplinary cohort of postdoctoral researchers and Ph.D. students working at scales from genomic characterization of physiological traits to landscape scale mapping and monitoring of complex social-ecological systems. The position will have substantial opportunity for project development, management, and teaching within both the trout and sagebrush components of the overall project, and opportunities for mentoring graduate and undergraduate research and engagement with stakeholders.

This is planned as a three-year position, with the second and third years contingent on performance and availability of funding. The successful candidate will be based in Moscow, Idaho and will interact with GEM3 faculty, post-docs and students at Idaho State University and Boise State University.

The position will be open until filled, with initial review of applications beginning 2/28/2019.

Full details, including a link for on-line applications, can be found at https://uidaho.peopleadmin.com/postings/24892

Please contact Chris Caudill (caudill@uidaho.edu, 208-885-7614) with any inquiries.