

**Postdoctoral Scholar – Population Genomics**  
Institute for Bioinformatics and Evolutionary Studies (IBEST)  
University of Idaho

An NSF-funded postdoctoral position is available in population genomics and statistical genomics at the University of Idaho.

The research program combines experimental laboratory evolution of brewer's yeast with next-generation sequencing to understand how genome-wide patterns of variation respond to controlled, replicated evolutionary conditions. We are particularly interested in the roles of standing genetic variation, divergent selection with migration, and recombination on patterns of neutral genetic variation in the chromosomal neighborhood around loci under selection. The experimental genomic data will be used to develop and validate novel analytical tools, based on Approximate Bayesian Computation (ABC), for population genomics in natural systems. The postdoc researcher will also have opportunity to apply analytical approaches to data from other empirical systems, including some with conservation applications (Tasmanian devils, threespine stickleback, and others).

We seek a highly motivated, independent researcher with a Ph.D. in biology, microbiology, evolutionary genetics, bioinformatics, statistics, or a related field. Experience in working with yeast or other laboratory microorganisms, genomic sequencing and bioinformatic analysis, and/or statistical methods is required. The postdoc will work closely with other members of the lab group on the different components of this project, and will also have the opportunity to conduct outreach and instruction in the analytical tools at workshops and short courses in population genomics.

The postdoc will join the Institute for Bioinformatics and Evolutionary Studies (IBEST), a vibrant interdisciplinary group of faculty and researchers. Mentors on this project are Dr. Paul Hohenlohe (Depts of Biological Sciences and Statistical Science), who specializes in evolutionary population genomics in a wide array of organisms, and Dr. Erkan Buzbas (Dept of Statistical Science), who specializes in statistical genomics.

The position is expected to begin as soon as possible. Initial appointment will be for one year, with possibility to extend to three years. Please submit a C.V. with contact information for 3 references, and a letter describing your interests and goals. For full consideration, please submit materials by August 1, 2017.

For further information please contact Paul Hohenlohe ([hohenlohe@uidaho.edu](mailto:hohenlohe@uidaho.edu)).  
Hohenlohe website: <http://hohenlohelab.github.io/>  
Buzbas website: <https://www.uidaho.edu/sci/stat/people/faculty/erkanb>