

The Fitzpatrick Lab (www.swfitz.com) at the W.K. Kellogg Biological Station, Michigan State University is searching for an enthusiastic and motivated postdoctoral researcher to work on projects focusing on landscape/conservation genomics of threatened species and genomic architecture of genetic rescue. The Fitzpatrick Lab is interested in the evolutionary and ecological processes that determine adaptation, fitness, and ultimately persistence in small populations. We primarily work on freshwater fish, including the model Trinidadian guppy system, as well as with a diverse set of non-model organisms, including amphibians, reptiles, and birds.

The primary responsibility of this position will be to carry out a range-wide population genomic study of Arkansas darters, a stream fish that occurs in small, fragmented populations and is a species of conservation concern. In addition to the funded work (U.S. Fish & Wildlife; Kansas Dept. of Parks, Wildlife, & Tourism), there will be opportunities to develop related experimental or theoretical projects related to genetic rescue, including the potential to take advantage of previously collected datasets from multi-generational genetic rescue experiments using Trinidadian guppies.

The position is based at MSU's Kellogg Biological Station, located in Hickory Corners, MI ~65 miles from the main campus. KBS is home to 14 resident faculty and their graduate students and post-doctoral researchers, with interests focusing on ecology, evolution, and conservation, as well as full-time research staff, visiting research scientists, and many summer undergraduates. KBS is home to the KBS Long Term Ecological Research (LTER) program (www.lter.kbs.msu.edu), the Great Lakes Bioenergy Research Center (GLBRC), and a newly developed Molecular Ecology and Genomics Laboratory. The successful candidate will have opportunities to interact with faculty on main campus in the Departments of Integrative Biology; Fisheries & Wildlife; members of the Ecology, Evolutionary Biology, & Behavior (EEBB) program; and the NSF BEACON Center for the Study of Evolution in Action. KBS and the Fitzpatrick Lab are committed to postdoctoral research career development, providing postdocs with opportunities to gain experience in mentoring, teaching, and other professional skills.

Requirements: We seek an individual with a PhD in a related field (ecology, evolution, genetics, conservation biology, organismal biology), demonstrated expertise in population and/or landscape genomics, and excellent writing ability. The candidate should have experience in the collection of NGS data (especially RADseq and/or WGS), bioinformatics pipelines to filter and assemble Illumina reads and call SNPs, GIS, and landscape genetic analysis.

Additional valuable qualifications include: coding skills, reference genome annotation, database management, experience working with live vertebrates in lab or field settings, and experience mentoring undergraduate students.

Start date and duration: The position start date is somewhat flexible, but we hope to employ someone by November 15, 2017. Funding is for one year with likely multi-year extension pending satisfactory performance.

Salary: \$47,500 - \$49,000 USD plus benefits

How to apply:

Interested candidates should apply by sending an email to sfitz@msu.edu that includes: (1) cover letter describing research interests and motivation, including a discussion of how your skills are aligned with the needs of projects described above, (2) CV, (3) names and emails of 3 references, and (4) 2-3

published papers or manuscripts in preparation. Review of applications will start October 1st and will continue until a strong candidate is hired.

Michigan State University, Kellogg Biological Station, and the Fitzpatrick Lab are interested in candidates who are committed to the highest standards of scholarship and professional activities, and to the development of a climate that supports equality and diversity. Michigan State University is an affirmative action/equal opportunity employer.