Postdoctoral advertisement: Genomic resources for red wolf and coyote conservation and management.

We are seeking a qualified postdoctoral candidate to work with a collaborative group of researchers to develop a noninvasive SNP genotyping assays (GT-seq) for southeastern canine management and conservation, and to assist with genomic analyses. Specifically, we are seeking a postdoctoral researcher with a background in population genetics, where primary tasks will include: assisting with molecular lab work, including contemporary and historic DNA processing; bioinformatics for GT-seq panel development; coordination of multiple partners; potential whole-genome sequence data analyses. Project partners include Dr. Kristin Brzeski, Michigan Technological University, Dr. Bridgett vonHoldt, Princeton University, Drs. Lisette Waits and Jen Adams, University Idaho, and Dr. Ben Sacks, University California Davis.

This position will be based in the Brzeski Lab at Michigan Technological University, although there is the potential for remote work, some in person lab work will be required. The successful candidate may also travel among partner institutions. The salary is $50,000 for 20 months (with potential for additional 2 months), including benefits.

Responsibilities/details:

- Bioinformatics to design GT-seq panel to differentiate coyotes and red wolves, id ancestry informative SNPs. Genomic data is already generated that will be used to design the assay.
- Laboratory work to test, optimize, and validate the GT-seq panel based on canines with known pedigree and ancestry estimates.
- Analysis and interpretation of resulting genotype data.
- Preparing manuscripts as lead author.
- Coordination and communication with research team.
- Whole-genome data analysis, additional lab work as time allows.

Qualifications:

- PhD in population genetics, molecular ecology, bioinformatics, or a related field
- Proficiency in programming language
- Experience working with high-throughput sequencing data
- Demonstrated record of research productivity, especially through a strong publication record

Application details: To apply, submit a pdf document to Dr. Kristin Brzeski (kbrzeski@mtu.edu) that includes: 1) a cover letter describing previous experience and fit to the position, 2) full CV, and 3) contact information for 3 references. Review of applications will begin in April 2022, and will be considered on a rolling basis until the position is filled. The position is available effective immediately, with a flexible start date no later than Summer 2022. Questions regarding the position can be directed to Dr. Kristin Brzeski.

Michigan Technological University is an Equal Opportunity Educational Institution/Equal Opportunity Employer, that provides equal opportunity for all, including protected veterans and individuals with disabilities. Applications from women and BIPOC scholars are highly encouraged by both the department and the institution. Michigan Tech is building a culturally diverse work force committed to

teaching and working in a multicultural environment and strongly encourages applications from all individuals. Michigan Tech is an ADVANCE Institution, and has twice received National Science Foundation funds in support of efforts to increase diversity, inclusion, and the participation and advancement of women and underrepresented individuals in STEM.