UMass Amherst

Postdoctoral researcher –Molecular Ecology & Conservation and Recreational Fisheries Labs

Job Summary

We are seeking a postdoctoral researcher to join our team leveraging genomic data to address research questions on the ecology, evolution and conservation of Golden Dorado (*Salminus brasiliensis)* across their geographic range in South America, with opportunities to develop additional projects broadly on molecular ecology in various other freshwater and marine fishes. Depending on skills and interests, this could include, but is not limited to, research questions on landscape genomics, comparative genomics, ecological adaptation, and conservation genomics. The postdoc will be part of a dynamic team across several UMass Amherst research groups in the Dept of Environmental Conservation, including the Molecular Ecology and Conservation Lab (PI Lisa Komoroske), the Recreational Fisheries Lab (PI Andy Danylchuk), a current PhD student leading work on range-wide population structure and demographic history, and network of international collaborators.

This position is a two year appointment, with a renewal for the second year provided satisfactory progress after year one. Because this position would be heavy on data analyses (though there is potential for field work and lab work), it has the possibility for remote work. We hope to have the researcher begin in late spring or early summer 2023 but there is flexibility in the exact start date. Interested candidates should email Lisa Komoroske (lkomoroske@umass.edu) with a cover letter, CV, an example writing product (e.g., published or forthcoming manuscript), and contact information for two references. Review of applications will begin **March 27th, 2023** but may continue past this date until the position is filled.

Essential Functions

Examples of duties:

- Develop research questions and experimental design to address them
- Conduct bioinformatics analyses of genomic and other (e.g., environmental) data
- Manuscript writing for publication in peer-reviewed journals

Other Functions

- Work collaboratively and effectively as part of an international team to promote teamwork, diversity, equality and inclusiveness.
- Mentor undergraduate and graduate students in affiliated research groups at UMass
- Participate in broader laboratory research, professional development and DEIJ activites

Minimum Qualifications (Knowledge, Skills, Abilities, Education, Experience, Certifications, Licensure)

- A Ph.D. in Ecology, Evolution, or a closely related field.
- Strong foundational knowledge in population genomics and evolutionary biology
- Strong experience working with large genomic datasets (ideally, but not required, with low and/or high coverage whole genome re-sequence data combined with a high quality reference genome)
- Strong analytical/bioinformatics skills including demonstrated proficiency with HPC, R, python and/or other relevant statistical analyses/programs.
- Experience designing, planning, and conducting research studies, including the ability to meet project goals in a timely manner, and follow through on project deliverables.
- Demonstrated capacity to communicate research findings both at professional meetings and in high quality peer-reviewed journals.
- Excellent technical, analytical, organizational, and problem-solving skills.

- Strong attention to detail, and meticulous work style, as evidenced by previous research.
- Strong interpersonal and communication skills and the ability to work both independently and collaboratively with researchers from different scientific backgrounds, including NGO and agency partners as well as stakeholders.

Preferred Qualifications (Knowledge, Skills, Abilities, Education, Experience, Certifications, Licensure)
- Research experience integrating large datasets
- Research experience and/or interest in data visualization
- Previous experience managing, mentoring, or otherwise overseeing staff, graduate or undergraduate students.
- A demonstrated capability to think critically about the practical application of research outcomes.

Salary Information
Salary is commensurate with experience; for 0-2 years' post-PhD experience annual salary starts at $52K plus benefits

About UMass Amherst
UMass Amherst, the Commonwealth's flagship campus, is a nationally ranked public research university offering a full range of undergraduate, graduate and professional degrees. The University sits on nearly 1,450-acres in the scenic Pioneer Valley of Western Massachusetts, and offers a rich cultural environment in a bucolic setting close to major urban centers. In addition, the University is part of the Five Colleges (including Amherst College, Hampshire College, Mount Holyoke College, and Smith College), which adds to the intellectual energy of the region.

As part of a commitment to their own multicultural community, CNS seeks an individual with a demonstrated commitment to diversity and one who will understand and embrace university initiatives and aspirations.

UMass Amherst is committed to a policy of equal opportunity without regard to race, color, religion, gender, gender identity or expression, age, sexual orientation, national origin, ancestry, disability, military status, or genetic information in employment, admission to and participation in academic programs, activities, and services, and the selection of vendors who provide services or products to the University. To fulfill that policy, UMass Amherst is further committed to a program of affirmative action to eliminate or mitigate artificial barriers and to increase opportunities for the recruitment and advancement of qualified minorities, women, persons with disabilities, and covered veterans. It is the policy of the UMass Amherst to comply with the applicable federal and state statutes, rules, and regulations concerning equal opportunity and affirmative action.