



The Modelscapes Consortium at the University of Wyoming is seeking applications for two additional postdoctoral researchers to join our interdisciplinary data science team of eight faculty and over 13 postdocs, spanning multiple research areas in ecology and evolutionary biology. As part of the modelscape consortium (<https://microcollaborative.atlassian.net/wiki/spaces/MP/overview>), the postdoctoral researchers will work closely with one or more faculty members at the University of Wyoming: Alex Buerkle, Sarah Collins, Daniel Laughlin, Lauren Shoemaker, and Topher Weiss-Lehman.

Dramatic increases in the scale and availability of data are profoundly reshaping all domains in the life sciences. Data acquisition and availability from DNA sequencers, environmental sensors, parallel global studies, and imagery are outpacing our capacity for analysis, including the development of models that represent our knowledge of biological processes. Research in our consortium is developing and competing computational, statistical, and machine learning methods for multi-dimensional data to create predictive and explanatory models for the life sciences. The project focuses on three research areas: (1) connecting genome to phenome (particularly in the context of evolutionary biology), (2) mechanistic modeling of species interactions and community diversity, and (3) time series of material and energy flux in aquatic ecosystems.

The positions are 100% research with flexible start dates; however, preference will be given to candidates who will be able to join the consortium immediately. The positions are for two years, with the possibility of extending the appointment, contingent upon performance. The postdoctoral researchers will be primarily based in one or a few labs but will benefit from the opportunities to collaborate broadly. The positions allow for multiple professional development opportunities, including training in highly interdisciplinary science, collaborations across institutions, regular meetings with the entire consortium, mentorship toward academic and non-academic career development, and interactions with graduate and undergraduate students. Successful applicants are not expected to have expertise in all facets of the project, but rather may be experts in a given domain of the life sciences or area of modeling. The postdoctoral researchers will primarily analyze existing and simulated data, and will have additional, complementary opportunities for laboratory or field research.

We recognize that the best science can originate from diverse collaborations with people from varied backgrounds, and we especially encourage applicants from underrepresented groups to apply. The positions are supported by a 4-year, \$6 million NSF EPSCoR RII Track-2 grant in response to our proposal entitled *Creating Explanatory, Process-Based Models to Harness the Data Revolution in the Life Sciences*.

APPLICATION:

To apply for the position, please submit a cover letter, CV, links to 1-2 recent first-authored publications, and names and contact information for three professional references at the following link:

https://eeik.fu.us2.oraclecloud.com/hcmUI/CandidateExperience/en/sites/CX_1/job/212751

The link will take you to the application page for all our open positions through the Modelscapes Consortium at the University of Wyoming, so please indicate in your cover letter which lab(s) you envision being based in. Applications submitted by January 21st will receive full consideration. The position is for two years, with the possibility for extension, contingent upon performance. The position provides a competitive benefits package, including health insurance, contributions to a retirement account, \$3,000 to cover moving expenses, and an annual salary of \$53,000.

ADDITIONAL INFORMATION:

The University of Wyoming has strong research programs in ecology and evolutionary biology across multiple departments, including Botany, Zoology and Physiology, Ecosystem Science and Management, Plant Sciences, and the Program in Ecology. The university is located in Laramie, a community that is nestled between the Laramie and Snowy Mountain ranges, which offer ample opportunity for skiing, climbing, hiking, and mountain biking. Laramie has a relatively low cost of living, is close to field sites across a wide variety of vegetation types from mixed grass prairie to alpine tundra, rivers and lakes, and is within easy driving distance of Colorado's Front Range corridor (Fort Collins, Boulder, and Denver).

The University of Wyoming is an Affirmative Action/Equal Opportunity Educator and Employer. We are committed to a multicultural environment and strongly encourage applications from women, minorities, veterans, and persons with disabilities.