

Postdoctoral Fellow

Fire regime modeling and mapping

In Brief: Post-doc will advance models and understanding of historical to modern era fire regimes across the U.S.

This post-doc will be employed by the University of Missouri and based in the [School of Natural Resources](#) and [Center for Tree-Ring Science](#) located in Columbia, Missouri. The post-doc will work closely with Dr. Michael Stambaugh, Associate Professor of Forest Ecology, and project partners from the U.S. Forest Service and multiple universities. This research is funded by the Joint Fire Science Program.

Job Duties: A post-doctoral position is available to advance modeling, mapping, and online tool development of historical to modern era fire regimes across the U.S. with particular focus on spatial scales relevant to fire and forest management operations. This position will analyze historical fire event datasets, modern vegetation and fuels datasets, and future climate-fire projections. This work builds on prior efforts of downscaling of the Physical Chemistry Fire Frequency Model (PC2FM) and integrates with work and outputs of ongoing ecohydrological and fire modeling through the Regional Hydro-ecologic Simulation System (RHESys). Primary duties include fire frequency model development, coordination with project partners, synthesizing information from multiple datasets, and developing manuscripts for publication. This position is expected to work collaboratively in a team, with mentorship responsibility.

Minimum Qualification: Ph.D. in forestry, climatology, geography, or related field by the time of appointment.

Candidates will be evaluated on: Experience in programming, data analysis, model development, statistical analysis of spatial and temporal datasets. Evidence of strong scholarship, including peer-reviewed publications. Demonstrated knowledge of diverse forest ecosystems, fire regimes, and model development; knowledge of fire history datasets; prior experience in web-based tool development; proven ability to finish projects; strong desire to work with stakeholders and as part of a team.

Appointment: Applications will be accepted until a suitable candidate is found, with an ideal start date in summer of 2024. Interviews will occur via Zoom. Initial appointment is for one year.

Application Procedure: Please apply online at <https://hr.missouri.edu/job-openings>, **Job ID 50581** and send: (1) CV, (2) the names and contact information for three professional references, and (3) PDFs of one or more relevant publications to Dr. Michael Stambaugh, Email: stambaughm@missouri.edu

Values Commitment

We value the uniqueness of every individual and strive to ensure each person's success. Contributions from individuals with diverse backgrounds, experiences and perspectives promote intellectual pluralism and enable us to achieve the excellence that we seek in learning, research and engagement. This commitment makes our university a better place to work, learn and innovate.

In your application materials, please discuss your experiences and expertise that support these values and enrich our missions of teaching, research and engagement.

Equal Employment Opportunity

Equal Opportunity is and shall be provided for all employees and applicants for employment on the basis of their demonstrated ability and competence without unlawful discrimination on the basis of their race, color, national origin, ancestry, religion, sex, pregnancy, sexual orientation, gender identity, gender expression, age, disability, protected veteran status, or any other status protected by applicable state or federal law. This policy shall not be interpreted in such a manner as to violate the legal rights of religious organizations or the recruiting rights of military organizations associated with the Armed Forces or the Department of Homeland Security of the United States of America. For more information, call the Director of Employee and Labor Relations at 573-882-7976.

