

Postdoctoral Fellow in Low-Carbon Energy and Policy
Analysis
University of Wyoming

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Job Title	Postdoctoral Fellow in Low-Carbon Energy and Policy Analysis
Department	Department of Civil & Architectural Engineering
Institution	University of Wyoming Laramie, Wyoming
Date Posted	Dec. 15, 2020
Application Deadline	Open until filled
Position Start Date	Jan. 4, 2021
Job Categories	Post-Doc
Academic Field(s)	Energy Technology

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Job Description

The Laboratory for Low-Carbon Energy and Environmental Sustainability in the Department of Civil & Architectural Engineering at the University of Wyoming (UW) has one postdoctoral fellow position in low-carbon energy and policy analysis (No. 20003834), which will start from Spring 2021.

The laboratory conducts systems research in low-carbon energy and environmental sustainability, which addresses technical, economic, and policy issues related to energy and the environment. Research topics of interest mainly include low-carbon energy systems, carbon capture, utilization and storage (CCUS), negative emissions technologies, low-grade heat & water recovery and reuse, and the energy-water nexus under carbon constraints for climate change mitigation.

A postdoctoral fellow will be hired to work on one research project, which will assess how implementation of low-carbon energy standards in the State of Wyoming would impact existing fossil fuel-fired power plants in the State. In particular, this project will establish the supply curve of CCUS deployment for the existing power fleet in meeting low-carbon energy standards and identify opportunities and challenges for CCUS retrofits. The postdoctoral fellow will be expected to prepare progress reports, present research results at conferences and workshops, deliver research results to

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State of Wyoming officials, and publish work in peer-reviewed journals. The research team will collaborate closely with Kipp Coddington, Director of the Center for Energy Research and Policy Analysis at UW.

A doctoral degree is required for this position. The applicants with expertise on CCUS, techno-economic analysis, and policy analysis are strongly encouraged. Please complete the online application and upload the following for a complete application: cover letter, resume or C.V., representative research article(s), and contact information for four work-related references. Here is the application website: https://uwyo.taleo.net/careersection/00_ex/jobdetail.ftl?job=20003834&lang=en. Additional information is also available on the application website. For any questions about this position, please contact Dr. Haibo Zhai by email at hzhai@uwyo.edu.

About Principal Investigator: Dr. Haibo Zhai is the Roy & Caryl Cline Chair of Engineering, Environment and Natural Resources and an Associate Professor in the Department of Civil & Architectural Engineering. Prior to UW, he was a research professor in the Department of Engineering and Public Policy at Carnegie Mellon University (CMU). He was also a key developer of the Integrated Environmental Control Model, a widely used power plant modeling tool developed by CMU for the U.S. Department of Energy's National Energy Technology Laboratory. More information is available on his faculty webpage: https://www.uwyo.edu/civil/faculty_staff/faculty/haibo-zhai/index.html.

Contact Information

Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

Contact Haibo Zhai
Department of Civil & Architectural Engineering
University of Wyoming
1000 E. University Avenue
Laramie, WY 82071

Contact E-mail hzhai@uwyo.edu