Postdoctoral Associate, Geology
University at Buffalo, The State University of New York

Job Title	Postdoctoral Associate, Geology
Department	Geology
Institution	University at Buffalo, The State University of New York Buffalo, New York
Date Posted	Feb. 5, 2025
Application Deadline	Open until filled
Position Start Date	Available immediately
Job Categories	Post-Doc
Academic Field(s)	Geology/Geosciences - General Earth Sciences
Job Website	https://www.ubjobs.buffalo.edu/postings/55693
Apply By Email	

Job Description

As a **Postdoctoral Associate** in the **Department of Earth Sciences**, this position will support an investigation entitled “Earth System Modeling of Regional Sea Level Rise and Risk”. The candidate will work under the direction of Prof Nowicki (UB) and Prof Kopp (Rutgers) and in collaboration with multiple UB faculty and students as well as our external collaborators located at NASA Goddard Institute for Space Studies (GISS) and at US universities. The work consists of using the GISS Earth System model (ModelE) in combination with the Framework for Assessing Changes to Sea-level (FACTS) and working closely with the Ice Sheet Model Intercomparison for CMIP7 (ISMIP7) to assess the key interactions that affect regional sea level. The FACTS tool has been used for probabilistic assessment of sea level projections in recent IPCC and NCA reports. Integration of ISMIP7 simulations with GISS ModelE outputs and FACTS is key to the success of the effort, so the postdoctoral associate will be in communication with team member, ISMIP7 participants and member of the NASA Sea level Change team and will be required to present the project at workshop and conferences as well as in

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publications.

Duties will include but are not limited to:

- Helping develop a novel approach to produce fingerprints and scaling from the GISS ESM and inform improvements in the FACTS tool. This requires identifying suitable dataset/parameterizations from literature reviews, accessing datasets from data archive and observation servers, or developing novel analysis methods.
- Generate regional sea-level dataset. Collecting and preparation of dataset that integrates the results of ISMIP7 simulations with GISS ModelE outputs and FACTS. Creating scripts for analysis and post-processing to create datasets or tools for use by the team.
- Presenting material and approach to the interdisciplinary team and developing collaborations with the ISMIP7 project and NASA Sea Level Change Team. This requires participating in the scientific discussions of the project, presentation at team meetings, workshop and conference meetings but also follow up with team members via email/phone/zoom calls.
- Presenting finding to the broader community at conferences, workshops and via publications. This requires writing and verbal skills, as well as developing and maintaining collaborations and networks.

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- Our **benefits**, where we prioritize your well-being and success to enhance every aspect of your life.
- Being a part of the **University at Buffalo community.**

As an Equal Opportunity / Affirmative Action employer, the Research Foundation will not discriminate in its employment practices due to an applicant's race, color, religion, sex, sexual orientation, gender identity, national origin and veteran or disability status.

Contact Information

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

Contact

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