



## **Scientific Programmer: Sea-Level Projections and Coastal Climate Risk Management**

for more information and to apply: <https://jobs.rutgers.edu/postings/154667>

The Rutgers University Department of Earth & Planetary Sciences invites applications for a scientific programmer. The candidate will join the [Rutgers University Earth System Science & Policy Lab \(earthscipol.net\)](http://earthscipol.net), under the direction of Professor Robert Kopp, and its collaborators in the [Megalopolitan Coastal Transformation Hub \(MACH\)](#). MACH, a transdisciplinary research network analyzing coastal climate risk management strategies, will provide unique opportunities for research, education, outreach, decision support, and professional development.

Research in the Earth System Science & Policy Lab addresses four interrelated questions: First, how has sea level changed in the past? Second, how may sea level change in the future in response to climate forcing? Third, how do climate and sea-level change impact the economy and human well-being? Finally, how can climate and sea-level science more effectively support climate risk management under deep uncertainty?

The scientific programmer will develop new modules and capabilities for the Framework for Assessment of Changes To Sea-level (FACTS), an open-source sea-level projection framework that was used to support the development of projections for the Intergovernmental Panel on Climate Change's Sixth Assessment Report.

They will also work with researchers, community members, and decision-makers in MACH and the NASA Sea-Level Change Team to develop other modeling, analysis, visualization, and decision support tools. Desired areas of expertise include high-performance computing, statistical analysis of large datasets, optimization techniques, data visualization, and development of web-based graphical user interfaces. Interest in climate and sea-level change is essential, though past experience in these areas is not required.

The position will be in collaboration with the RADICAL Laboratory, in the Rutgers School of Engineering, and the Department of Data Driven Discovery at Brookhaven National Laboratory.

Experience with Python, Linux, and HPC systems is essential, and experience with Dask, xarray, and netCDF files is strongly desired. The successful candidate will generally have a Master's degree in a relevant field (Ph.D. preferred), although other candidates with significant experience and a demonstrated record of success in scientific computing may also be considered.

The position is available immediately and will remain open until filled. Initial appointment will be for a period of one year, with excellent possibility of renewal for one or more additional years. The salary will be competitive, commensurate with experience, and will comply with Rutgers University guidelines. The position is listed as full-time but part-time applicants will also be considered.

Review of applications will begin on March 4, 2022.