

Fully-funded PhD positions in climate science (The Climate Intelligence Lab, JHU)

The Climate Intelligence Lab at Johns Hopkins University, led by Professor Karen McKinnon, is recruiting two fully funded PhD students, to begin Fall 2027, in the Department of Environmental Health and Engineering within the Whiting School of Engineering.

One of the positions will focus on variability and extremes in AI weather and climate emulators, and could include additional foci on uncertainty quantification, mechanistic evolution of weather extremes, and/or S2S predictions.

The second position will focus on climatic controls and projections of western US hydroclimate, including wildfire, drought, and streamflow. The research will rely on developing predictive, causal models using historical observations, and identifying robust future changes using climate models.

In your application, please indicate which project is of greater interest, and your relevant background. Applications should be submitted to the Environmental Engineering program through the Whiting School of Engineering. Strong candidates will be contacted in the winter, after applications are received, for interviews.

For both positions, the minimum requirements are:

- BS or BA in atmospheric science, climate science, Earth science, or related fields; or a BS or BA in computer science, applied math, statistics, or related fields with demonstrated interest in climate science
- Strong quantitative skills
- Experience and competency with Python or another scientific computing language
- Curiosity and a desire to collaborate within the research group

The preferred qualifications include:

- A master's degree or work experience
- Fluency in Python
- Experience working with large climate datasets using Linux systems
- One or more publications in a peer-reviewed journal