

COMPUTER SCIENCE

Use the power of computing and your creativity to help visualize data, improve energy efficiency, and model climate impacts.



Geographic information systems

Bring climate data to life with maps and other informative graphics.

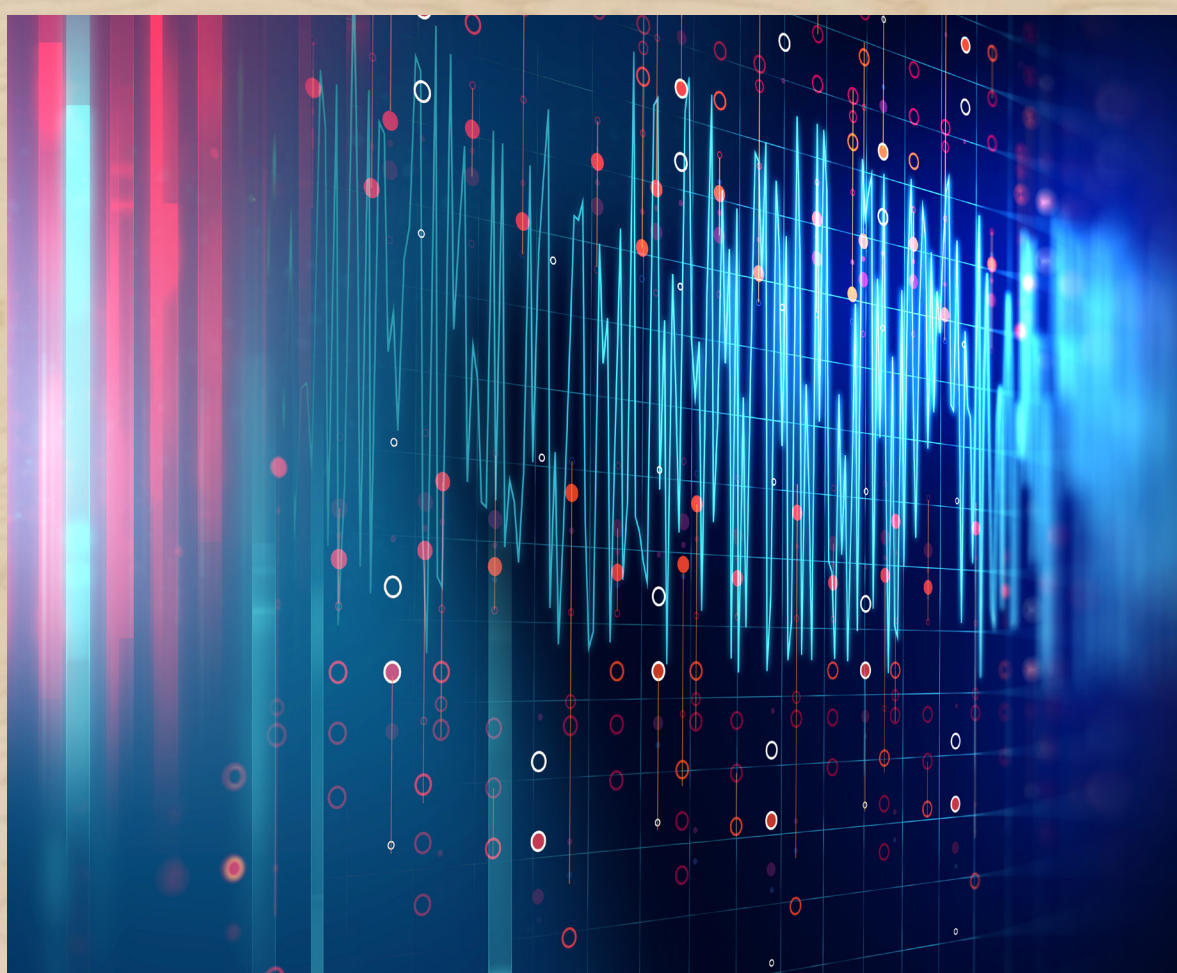
At home: Create digital maps with climate data from your community to better understand how landscapes, weather patterns, and populations have changed over time.



Environmental modeling

Compile data and use computer models to predict changes to ecosystems, people, wildlife, and more.

At home: Contribute data to climate models by taking part in community science efforts like tracking monarch populations or sampling water to measure the quality of your local waterways.



Data analytics

Handle large datasets on global temperature, sea level rise predictions, energy use, and other climate modeling datasets.

At home: Record data in your community to help understand the nuances of climate impacts. Try gathering weather data, counting backyard pollinators, or tracking cases of heat stress.



Coding

Help develop code to improve energy efficiency in homes and buildings.

At home: Submit code to programs like IBM's Call for Code which helps crowd source code to come up with solutions for improving our food system, cleaning air and water, and improving production systems.