



Postdoctoral Researcher - Arctic Carbon Flux Monitoring
Falmouth, Massachusetts or Remote
[Link to apply](#)

Mission:

Woodwell Climate Research Center (Woodwell Climate) conducts science for solutions at the nexus of climate, people, and nature. We partner with leaders and communities for just meaningful impacts to address the climate crisis.

Summary:

Woodwell Climate is seeking a Postdoctoral Researcher to contribute to the establishment and maintenance of an Arctic Carbon Monitoring Network, which will include the establishment of new eddy covariance monitoring sites across the Arctic-boreal region. Provide coordination and support for existing flux sites, and application of flux data to understand current and future carbon budgets across the Arctic-boreal region. The Postdoctoral Researcher will work closely with external collaborators and Woodwell scientists to develop the Monitoring Network, including identifying and establishing new flux sites, sharing and publishing research results, and working with the project team to upscale and integrate data into a pan-Arctic modeling framework to assess the current and future carbon balance of the Arctic-boreal region. This position is part of [Permafrost Pathways](#), to monitor and to project Arctic-boreal carbon emissions, inform climate mitigation policy, and facilitate climate adaptation in permafrost regions. This position will work within a highly collaborative environment and be supported by a strong project team including process modelers, remote sensing experts, field scientists, a project manager, communications and policy experts.

Responsibilities:

- Work closely with scientists and collaborators to guide the development of the Arctic Carbon Monitoring Network, including the establishment of about ten new eddy covariance flux sites and support for existing sites as needed to ensure data continuity and coverage
- Travel internationally to establish and maintain eddy covariance flux sites
- Coordinate field-based research activities, including oversight of project research assistants
- Lead collection, processing, analysis, and archiving of eddy covariance flux data
- Lead manuscript preparation and publication
- Present results at relevant conferences and meetings
- Collaborate with a team of Arctic researchers to understand and communicate the implications of changing Arctic carbon budgets on global climate

Required Qualifications and Experience:

- Ph.D. (granted or expected soon) in Earth System Science, Environmental Science, Ecology, Atmospheric Science, or a related field required
- Knowledge of Arctic carbon cycling, Arctic ecology, and/or climate change research
- Experience setting up and/or maintaining eddy covariance instrumentation, and collecting, processing, interpreting, and synthesizing eddy-covariance flux data
- Experience analyzing data using Python, MATLAB, or R
- Excellent interpersonal, teamwork, written, and verbal communication skills
- Demonstrated record of publication in scientific journals
- Ability to work with minimal supervision and provide supervision and mentorship to others as required
- Commitment to diversity, equity, inclusion, and justice in sciences
- Experience and/or interest in research collaboration and co-production of knowledge with Arctic Indigenous scientists, knowledge-holders, and residents
- Willingness to travel a few weeks a year, about 25% of time, mostly in May- September
- Experience leading field-based research campaign preferred

Physical Requirements:

In the office:

- Ability to tolerate sustained periods of walking, standing, sitting
- Ability to lift 25 pounds
- Ability to communicate
- Ability to kneel, bend, and carry items
- Ability to use phone and computers
- Repetitive movements
- Air, train, vehicle travel to attend meetings/event

In the field, the physical requirements of this role include:

- Air, train, vehicle travel to access field locations
- Driving a vehicle or ATV to access field locations
- Walking, hiking, climbing to access field locations
- Paddling, canoeing to access field locations
- Standing and sitting for sustained periods
- Frequent bending, squatting, and kneeling
- Reaching overhead
- Climbing ladders
- Use of manual and power tools including shovels, saws, drills, and hammers
- Ability to lift up to 25lbs up to 10 times/day
- Ability to carry up to 25lbs up to 10 times/day
- Ability to push/pull up to 25lbs up to 10 times/day

Application review will begin on January 15, 2024, and will be ongoing until the opportunity is closed.

Desired Start Date: March 4, 2024

Classification and Compensation: This is a full-time, salaried, exempt position, the annual salary range starting at \$69,000.00 dependent on qualifications/experience. Woodwell offers a generous benefits package and work life balance.

Location: Falmouth, Massachusetts or remote.

Application Instructions: To apply, please send your cover letter addressing your experience and qualifications in relation to the responsibilities of this position, curriculum vitae, and contact information for three references as **a single PDF** to our career's portal.

Located on a 10-acre campus near the village of Woods Hole, Woodwell Climate Research Center is a private, non-profit research center. Woodwell is a leading source of climate science that drives the urgent action needed to solve climate change. Woodwell has 80+ staff members and is excited to welcome new employees to this work.

Woodwell is an equal opportunity employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, mental, or physical disability, age, sexual orientation, gender identity, national origin, familial status, veteran status, or genetic information. Woodwell is committed to providing access, equal opportunity, and reasonable accommodation for all individuals in employment practices, services, programs, and activities.

Diversity, Equity and Inclusion at Woodwell

WE NEED ALL VOICES IN THE FIGHT AGAINST CLIMATE CHANGE

Climate change is the greatest challenge of our lifetimes. Woodwell Climate Research Center (Woodwell) understands that the climate crisis—from causes to consequences—is inextricably linked with persistent social injustice. Effectively addressing either requires addressing both. The climate crisis demands that we bring to bear all of the knowledge, expertise, innovation, and creativity that we can collectively muster, and those who have been marginalized and disproportionately impacted must be heard.

The work Woodwell Climate does—the questions we ask, the ways we seek answers, and the strategies we put forward—is stronger when shaped by a diversity of knowledge, perspectives, and experiences. We strive to welcome, respect, and amplify differing voices. We value individuals as they are, with all their differences in race, age, ethnicity, gender identity, sexual orientation, religious beliefs, language, and mental and physical abilities.

Woodwell Climate acknowledges that our organization, and the scientific community more broadly, have a long way to go in living up to these ideals. We approach the work of improving our organization with the same ambition and commitment to systemic change that we bring to addressing climate change.

We will inevitably make mistakes, but we will continue to listen, learn, and do this critical work. We understand that this work requires an ongoing commitment from each and every one of us. We are actively engaged in building and sustaining an equitable and inclusive culture within our organization, and in fostering greater diversity in climate science.