Postdoctoral Climate Modeling Scientist

Who We Are:

The Nature Conservancy's mission is to protect the lands and waters upon which all life depends. As a science-based organization, we create innovative, on-the-ground solutions to our world's toughest challenges so that we can create a world in which people and nature thrive. We're rooted in our Mission and guided by our Values, which includes a Commitment to Diversity and Respect for People, Communities, and Cultures. Whether it's career development, flexible schedules, or a rewarding mission, there's lots of reasons to love life #insideTNC. Want a better insight to TNC? Check out our TNC Talent playlist on YouTube or on Glassdoor.

Our goal is to cultivate an inclusive work environment so that all our colleagues around the globe feel a sense of belonging, and that their unique contributions to our mission are valued. We know we'll only achieve our Mission by hiring and engaging a diverse workforce that reflects the communities in which we work. In addition to the requirements in our postings, we recognize that people come with talent and experiences outside of a job. Diversity of experience and skills combined with passion is a key to innovation and a culture of inclusion! Please apply – we'd love to hear from you. To quote myriad TNC staff members, "you'll join for our mission, and you'll stay for our people."

What We Can Achieve Together:

The Postdoctoral Climate Modeling Scientist will work as part of the Global Science Team for The Nature Conservancy (TNC). The Postdoctoral Scientist will provide technical and scientific support for The Nature Conservancy's One Conservancy Science Plan, which is investing in science across the organization to achieve TNC's 2030 Goals for people and nature. This position will be focused on climate hazards to people and nature, under Global Science's Accelerating Impact Fund (AIF) grant.

This position will report to the Applied Climate Modeling Scientist on the Climate Science team (one of the 5 Science lines in the Global Science team). The AIF project seeks to embed information on climate hazards, socio-economic vulnerability, and adaptation costs into three regional strategies (Kenya, the Dominican Republic, and Colombia) in TNC. The Postdoctoral Fellow will play a critical role in analyzing and projecting national and sub-national climate patterns by downscaling global and regional climate model outputs to quantify climate hazards such as floods, droughts, heatwaves, storm surge and sea level rise. Your work will contribute to understanding the impacts of climate change at a local scale and will contribute to vulnerability assessments and adaption planning for local communities.

We're Looking for You:

Are you looking for work you can believe in? At TNC, we strive to embody a philosophy of Work that You Can Believe in and where you can feel like you are making a difference every day. The Postdoctoral Climate Modeling Scientist reviews and synthesizes scientific literature to identify critical research questions related to TNC's 2030 Goals including people, global climate change and biodiversity. The Postdoctoral Scientist will analyze climate data, apply downscaling methods, write reports, and develop proposals to support conservation efforts. The Postdoctoral Scientist will have a track record of research, publication, and application of climate data and projections to climate adaptation and resilience planning across multiple sectors and geographies; be familiar with the latest global climate models, regional climate models, statistical and/or dynamic downscaling techniques, and associated datasets; be experienced in quantitative analyses and modeling; and enjoy working across a variety of geographic regions and applications. The Postdoctoral Scientist will collect, manage, and analyze data and write up findings for peer-reviewed publications. The Postdoctoral Scientist will may also administer and coordinate conservation activities and project management to inform programs within the Global Science business unit and scientific research. The Postdoctoral Scientist may contribute to grant writing and other fundraising activities

This is a 2-year term limited position with the possibility of a one-two year extension based on performance, deliverables, and funding opportunities. The location for this position is flexible to all locations where The Nature Conservancy is registered to do business. Arlington, VA is where TNC's headquarters is located. No relocation, immigration or visa assistance is available with this position and the successful candidate will have authorization to work within the country where they are located.

The climate modeling postdoc Responsibilities & Scope include:

- Review and synthesize relevant scientific literature.
- Manage and analyze data and write up findings for peer reviewed publications.
- Deliver tools, data, analytical support, field services and training to staff and partners.
- Develop visualizations for communicating research results.
- Contribute to grant writing and other fundraising efforts.
- Develop visualizations for communicating research results.
- Work collaboratively though influence and building professional relationships.

What You'll Bring:

- Ph.D. in climate science related field awarded by start of the position (and no longer than 5 years prior) and 1 to 2 years of related experience.
- Fluency in Python, R, NetCDF, MATLAB and/or other relevant computing programs and languages
- Experience in analyzing, interpreting and applying observational climate data, global or regional climate model projections, and scenarios.
- Experience in the development and application of high-resolution climate projections from dynamical and/or empirical statistical downscaling models to inform climate impact assessments and climate adaptation and resilience planning across a broad range of sectors and geographies.
- Demonstrated ability in identifying the most appropriate climate inputs, including observations and model projections, for use in projects that span a broad range of sectors, resources, and geographies.
- Experience collating, manipulating, analyzing and interpreting scientific data.
- Strong writing and communication skills in English.

- Record of peer-reviewed publications.

DESIRED QUALIFICATIONS
- Multi-cultural or cross-cultural experience will be prioritized.
- Fluency in Python
- Experience integrating climate data with Geographic Information Systems (GIS) based tools, such as ArcGIS and ArcGIS Pro, QGIS, GRASS, and other similar tools.
- Experience reviewing and synthesizing relevant scientific literature.
- Experience in teaching or developing training materials and workshops related to helping non-experts understand climate modeling, vulnerability assessments, and/or adaptation planning concepts.
- Experience with grant writing or other fundraising efforts.
- Experience that demonstrates attention to detail.
- Experience working collaboratively across multiple stakeholders, including non-scientists.
- Ability to organize work effectively, conceptualize and prioritize objectives, and exercise independent judgment based on an understanding of organizational policies and activities.
- Independent and self-motivated with the ability to participate effectively in a remote team environment.

What We Bring:

Since 1951, The Nature Conservancy has been doing work you can believe in protecting the lands and waters that all life depends on. Through grassroots action, TNC has grown to become one of the most effective and wide-reaching environmental organizations in the world. Thanks to more than 1 million members, over 400 scientists, and the dedicated efforts of our diverse staff, we impact conservation throughout the world!

The Nature Conservancy offers a competitive, comprehensive benefits package including: health care benefits, flexible spending accounts, 401(k) plan including employer match, parental leave, accrued paid time off, life insurance, disability coverage, employee assistance program, other life and work wellbeing benefits. Learn more about our benefits at in the **Culture Tab** on nature.org/careers.

We're proud to offer a work-environment that is supportive of the health, wellbeing, and flexibility needs of the people we employ!

This description is not designed to be a complete list of all duties and responsibilities required for this job.

Our Competencies:

BUILDS RELATIONSHIPS	Builds productive relationships by interacting with others in ways that enhance mutual trust and commitment.
COLLABORATION & TEAMWORK	Works collaboratively with stakeholders across levels, geographies, backgrounds, and cultures to improve decisions, strengthen commitment, and be more effective.
COMMUNICATES AUTHENTICALLY	Communicates proactively and in a timely manner to share information, address important issues, persuade, and influence with the appropriate level of detail, tone, and opportunities for feedback.
DEVELOPS OTHERS	Takes ownership to help develop others' skills, behaviors, and mindsets to help them strengthen their workplace contributions.
DRIVES FOR RESULTS	Sets challenging goals and objectives based on a strong sense of purpose and high-performance standards and steadfastly pushes self and others for tangible results, while ensuring work-life balance.
LEVERAGES DIFFERENCE	Demonstrates commitment to harnessing the power of differences strategically; consistently sees, learns from, and takes strategic action related to difference; and demonstrates the self-awareness and behaviors to work across differences of identity and power respectfully and effectively with all stakeholders. Actively seeks to build and retain a diverse workforce and fosters an equitable inclusive workplace by drawing upon diverse perspectives.
SYSTEMS LEADERSHIP	Thinks and acts from a broad perspective with a long-term view and an understanding of 1) the dynamic nature of large-scale challenges and 2) the need for integrating five key practices: skillfully engaging appropriate people; providing a clear process for change; taking a holistic view of situations; focusing on a small number of strategic actions, while learning from and adapting them over time; and being aware of how one's own thinking or patterns of behavior may be limiting change.

The Nature Conservancy is an Equal Opportunity Employer. Our commitment to diversity includes the recognition that our conservation mission is best advanced by the leadership and contributions of people of diverse backgrounds, beliefs, and cultures. Recruiting and mentoring staff to create an inclusive organization that reflects our global character is a priority and we encourage applicants from all cultures, races, colors, religions, sexes, national or regional origins, ages, disability status, sexual orientations, gender identities, military, protected veteran status or other status protected by law.

TNC is committed to offering accommodations for qualified individuals with disabilities and disabled veterans in our job application process. If you need assistance or an accommodation due to a disability, please send a note to applyhelp@tnc.org with Request for Accommodation in the subject line.

For Internal Reporting:

Job Title: Postdoctoral Climate Modeling Scientist, Global Science
Job Family: Science
Internal Job Code: 400001
Salary Grade: 6
Status: Salaried
PeopleSoft Job ID Number: 53752
Date: July 2023