



Joint Global Change Research Institute



Director

INTRODUCTION

[The Joint Global Change Research Institute \(JGCRI\)](#), a partnership between [Pacific Northwest National Laboratory \(PNNL\)](#) and the [University of Maryland \(UMD\)](#), seeks a dynamic and inclusive scientist and leader to serve as its next Director.

JGCRI provides crucial scientific discovery and analysis for some of the most pressing issues of our day. Its collaborative, multidisciplinary approach has allowed its team to shape a distinctive portfolio of research that spans energy, water, land, climate, technology, economics, and policy. Researchers at JGCRI are dedicated to providing environmental and human systems research, analysis, and modeling that advances scientific understanding and supports decision-makers. The Institute's next Director will lead a world-class team of researchers, manage the steady growth and direction of the Institute, and serve as chief spokesperson and advocate for JGCRI and its work.

This is a critical moment for JGCRI to leverage its unique research identity and capabilities to support its future growth and impact, and the next Director will lead this charge. She/he/they must be someone with the ability to communicate effectively and persuasively with diverse stakeholders, including current and potential sponsors, policymakers, researchers, and others within the scientific community and beyond. The Director must be adept at managing collaborative, interdisciplinary teams and securing funding for scientific projects. Of course, this person must also be strongly aligned with the mission of JGCRI and possess a strong record of scientific achievement.

ABOUT THE INSTITUTE



JGCRI was established in 1998 as a partnership between PNNL and UMD, the flagship campus for the University System of Maryland, in College Park, Maryland. JGCRI benefits from the exceptionally broad expertise and capabilities offered by both PNNL and UMD, with a number of joint research projects, joint appointees, and collaborations with departments and divisions across the two institutions. JGCRI also engages in a broad range of national and international partnerships and collaborations.

The Institute is known for its research, modeling and integrated analyses at the interface of human, energy, and environmental systems. In particular, JGCRI is a global leader in the interdisciplinary

field of integrated assessment of global change. The Global Change Analysis Model (GCAM), at the core of JGCRI's integrated capabilities, is a global model that includes both comprehensive and detailed representation of human systems that drive or are affected by global environmental change. JGCRI research results are used widely in reports by the Intergovernmental Panel on Climate Change, the U.S. Global Change Research Program, and U.S. federal agencies, as well as by leading think tanks, private sector firms, and non-governmental organizations. Internships and fellowships at JGCRI provide training and research opportunities for a new generation of scientists, and the Institute also hosts visiting scholars from all career stages.

PNNL researchers at JGCRI reside within the Atmospheric Sciences and Global Change Division of PNNL, while UMD researchers at JGCRI include faculty, staff researchers, and students from across the University of Maryland community. The JGCRI team is comprised of 25 staff scientists, an equal number of graduate and post-graduate researchers, six jointly appointed scientists from UMD, and six support staff members, plus up to a dozen interns, visiting scholars, and guest researchers. The Institute's annual budget is approximately \$10M.

RESEARCH AREAS

The Institute's research focuses on five research areas, that collectively define where the Institute seeks to evolve its scientific and technical expertise and enabling capabilities over the coming decade. These research areas include:

- [Human-Earth Systems Models](#)
- [Data Products](#)
- [Human-Earth System Processes and Interactions](#)
- [Impacts, Adaptation, and Vulnerability](#)
- [Technology and Policy](#)

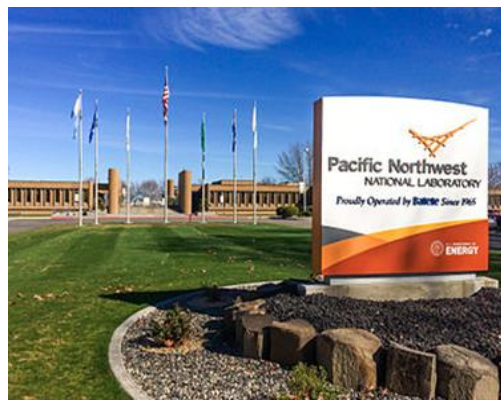
JGCRI research emphasizes integrated and interdisciplinary approaches to understanding how people interact with institutions, technology, and the environment. This perspective, while acknowledging the critical importance of research in individual disciplinary areas, focuses on the interactions between different systems –for example, energy, water, land, climate, and socioeconomics. This integrated perspective emphasizes the value of simultaneously developing data, models and other analysis methods, conducting research, and working with decision makers to bring new scientific information to bear on their decisions.

THE UNIVERSITY OF MARYLAND

The University of Maryland at College Park is a land-grant, sea-grant public research university with an annual budget of \$2.1 billion and over \$570 million of annual research awards. It is the major research university in the Washington, D.C., area. The University has globally leading strengths in environmental, information, and physical sciences; public policy and sustainability, modeling and remote sensing; engineering and energy. In addition to a broad set of departments and programs with activities in these areas, the University also supports a number of research centers including the Earth Systems Science Interdisciplinary Center (ESSIC), the Center for Global Sustainability (CGS), the Maryland Energy Innovation Institute (MEI²), and many others. The University employs 14,000 faculty and staff, 2 Nobel laureates, 3 Pulitzer prize winners, and 60 members of the National Academies. It provides education to 11,000 graduate students and 30,000 undergraduates through 250 academic programs.

ABOUT PNNL

For more than 50 years, PNNL discoveries and innovations have provided solutions to some of the nation's most complex problems in energy, the environment, and national security. PNNL researchers are recognized worldwide for making fundamental discoveries in a wide range of disciplines, including developing new measurement and modeling approaches to understand the multiscale interactions among elements of the earth system. PNNL, which has a main campus in Richland, Washington, but with multiple "satellite" campuses and joint institutes, employs over 4,800 scientists, engineers, and professionals and accounted for over \$1 billion in R&D expenditures in FY2019. PNNL is a [U.S. Department of Energy \(DOE\)](#) national laboratory that performs work funded by DOE, the U.S. Department of Homeland Security, and other sponsors, often working in partnership with academia, other national laboratories, and industry. PNNL is managed by Battelle, a nonprofit government contractor focused on scientific discovery and innovation.



COLLEGE PARK, MARYLAND

JGCRI is situated on the UMD campus in College Park, located 8 miles from Washington, D.C. Proximity to the nation's capital not only affords the JGCRI team a multitude of possibilities for scientific collaboration and sponsor engagement, it offers countless opportunities for staff to enjoy the rich history of D.C. and take advantage of world-class museums, arts and cultural activities, and dining and nightlife within the city's many dynamic neighborhoods.

THE NEXT JGCRI DIRECTOR

Reporting to the director of the Atmospheric Sciences and Global Change Division within the Earth and Biological Sciences Directorate at Pacific Northwest National Laboratory, the Director provides oversight and leadership for all aspects of JGCRI, including line management of its staff, management of overhead budgets, oversight of day-to-day operations, and engagement with sponsors, partners, and the broader scientific and decision-making community. The Director also maintains communication with UMD leadership and is responsible for ensuring that JGCRI activities are aligned with the mission and values of both UMD and PNNL. Finally, and perhaps most importantly, the next Director must set a visionary and strategic scientific vision that will further distinguish and advance the Institute in all of its pursuits.

OPPORTUNITIES AND CHALLENGES

JGCRI is a world-renowned center for interdisciplinary global change research with unique and distinguishing capabilities and approaches. The Director will play a critical role in bolstering JGCRI's continued achievement, recognition, and growth, allowing it to continually push boundaries and expand its reach. With this in mind, the next Director will embrace the following opportunities and challenges:

- **Championing JGCRI's many scientific contributions and successes to internal and external audiences:** The next Director must serve as a tireless ambassador for JGCRI, promoting its leading-edge capabilities and interdisciplinary research to a broad and influential audience, both internally within PNNL and UMD as well as externally with existing and new sponsors and partners. With JGCRI's prime location close to Washington D.C., the Director will have the opportunity to represent the Institute with policymakers and other scientific leaders to help yield support for its future endeavors.
- **Managing sponsor relationships and identifying new funding opportunities:** JGCRI is fortunate to be in close proximity to many of its research sponsors. The next Director must actively engage with DOE and other government agencies on a regular basis, as well as with other state, industry, and private-sector sponsors, maintaining and strengthening relationships to ensure that JGCRI's work is continually supported and well received.
- **Collaboratively developing and implementing a bold strategic vision for the Institute:** With the support of an excellent team, the next Director will be tasked with setting a strong vision for future growth, expanding both its output and programmatic reach. She/he/they will work collaboratively with clients and partners of the Institute to identify emerging research opportunities and partnerships that align with its mission as well as optimize the Institute's tools and resources.
- **Attracting, supporting, and developing a diverse and high-performing team:** JGCRI boasts a strong team of leaders, scientists, and support staff deeply committed to their work and the mission of the Institute. As JGCRI continues to grow, it will be crucial that the next Director lead staff recruiting and retention efforts that promote diversity, equity, inclusion, professional development, career advancement, and technical excellence.
- **Fostering a culture of continued collaboration, communication, and cohesion:** With JGCRI at the heart of partnership between PNNL and UMD, it is advantageously positioned to enjoy the best of both the national lab and academic worlds. The next Director must take full advantage of this unique identity and set of relationships, illuminating the benefits of collaboration while deftly navigating the challenges of physical distance between the two institutions and the convergence of distinctive research cultures.

QUALIFICATIONS AND PERSONAL CHARACTERISTICS

Candidates must possess a demonstrated track record of leading highly multidisciplinary and collaborative teams. She/he/they must be respected by peers in their field and show evidence of supporting and promoting the work of others. Additionally, the ideal candidate will possess many of the following qualities and experiences:

- Strong aptitude and desire to serve as chief spokesperson for the Institute;
- Excellent communication skills and ability to work with a diverse set of stakeholders and collaborators;
- A distinguished record of scientific achievement, research funding, and publications in fields relevant to JGCRI core research areas;
- The creativity, boldness, and vision to lead and shape a growing scientific enterprise;

- Demonstrated success with governmental and other funding agencies and groups of influence;
- The energy and self-confidence to successfully navigate a complex, multidisciplinary scientific environment;
- The ability to balance competing priorities and interests;
- A record of supporting, motivating, and inspiring researchers and staff;
- Evidence of cultivating an environment that supports diversity, inclusion, and equity;
- A collaborative and collegial leadership style and an ability to work across constituencies and institutions;
- Outstanding diplomatic and negotiation skills and the ability to articulate complex and nuanced topics accurately in multiple contexts;
- The ability to manage and provide oversight for budgeting, accounting, internal controls, and financial reporting for research and sponsored program activities;
- A Ph.D. in a relevant scientific area, and
- A leadership style that displays humility, integrity, and collegiality.

For best consideration, please send all nominations and applications (vita and cover letter) to:



Jim Sirianni, Partner
Julia Patton, Senior Associate
Storbeck Search & Associates
DirectorJGCRI@storbecksearch.com

PNNL is an Equal Opportunity/Affirmative Action Employer that is committed to hiring a diverse, talented workforce. EOE Disability/Vet/M/F/Sexual Orientation/Gender Identity. Staff at PNNL must be able to demonstrate the legal right to work in the United States.