

**Opportunity Title:** USGS Fellowship on Increasing the Impact of Co-Produced Climate Science Among Diverse Pacific Practitioners

**Opportunity Reference Code:** USGS-2022-18



**Organization** U.S. Department of the Interior (DOI)

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**How to Apply** *Connect with ORISE...on the GO!* Download the new ORISE GO mobile app in the [Apple App Store](#) or [Google Play Store](#) to help you stay engaged, connected, and informed during your ORISE experience and beyond!

A complete application package consists of:

- An application
- Transcript(s) – For this opportunity, an unofficial transcript or copy of the student academic records printed by the applicant or by academic advisors from internal institution systems may be submitted. Selected candidate must provide proof of completion of the degree before the appointment can start. Click [Here](#) for detailed information about acceptable transcripts.
- A current resume/CV
- Two educational or professional recommendations. At least one recommendation must be submitted in order for the mentor to view your application.

All documents must be in English or include an official English translation.

**Application Deadline** 9/23/2022 3:00:00 PM Eastern Time Zone

**Description** *\*Applications will be reviewed on a rolling-basis.*

**USGS Office/Lab and Location:** A research opportunity is currently available with the U.S. Geological Survey (USGS) at the Pacific Islands Climate Adaptation Science Center (PICASC) located in Hilo, Hawaii.

The USGS mission is to monitor, analyze, and predict current and evolving dynamics of complex human and natural Earth-system interactions and to deliver actionable intelligence at scales and timeframes relevant to decision makers. As the Nation's largest water, earth, and biological science and civilian mapping agency, USGS collects, monitors, analyzes, and provides science about natural resource conditions, issues, and problems.

The USGS Pacific Islands Climate Adaptation Science Center (PICASC) supports climate adaptation-focused projects that develop science- and equivalent knowledge-based products intended for use in decision making by practitioners, managers, policy-makers, etc. in five Science Priority Topical Areas: 1. Drought in the Pacific Islands; 2. Coastal Adaptation and Planning; 3. Forest Conservation in a Changing Environment; 4. Core Questions for Resource Managers; and 5. Adaptation and Survival in Low Lying Islands and Atolls.

**Research Project:** The selected individual will develop qualitative and or quantitative metrics to assess the impacts of PICASC's research portfolio in supporting science-based and equivalent knowledge-based decision making for climate-change adaptive management of natural and cultural resources. The selected individual will apply those sets of metrics; synthesize the impact-assessment findings; and identify gaps, challenges, and opportunities to increase breadth and depth of PICASC's climate science adaptation impacts.

The individual will actively engage with the practitioners who originally partnered with PICASC supported PIs to determine the impact of the co-produced research products on their management decision making. Through this and other research methods the candidate will identify factors important to successful adoption of co-produced science outcomes.

The selected individual will identify additional potential beneficiaries from the research products and conduct interviews or a similar assessment to determine best means of and or outstanding challenges preventing technology transfer to these individuals or organizations. In particular, PICASC hopes to broaden the impact of our work via engagement with indigenous, native Hawaiian, and other marginalized or traditionally under-represented community groups and locations across the Pacific Islands region. There may be opportunities for

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the participant to develop, conduct, and synthesize research and traditional ecological knowledge with and for these groups and locations to increase the impact of PICASC supported science and equivalent knowledge on management decisions enabling wildlife, ecosystems, and people to adapt to a changing climate. Given time and capacity, the individual may have the opportunity to collaborate with researchers, managers, and community members to actuate those changes to increase the impacts of previous and ongoing projects in science- and equivalent knowledge-based decision-making.

**Learning Objectives: The primary objectives are to:**

1. Develop and apply metrics to assess the impacts of the PICASC-supported climate change adaptation science portfolio on decision making by natural and cultural resource managers in the Pacific Islands;
2. Determine whether and how intended beneficiaries are using the knowledge and or tools generated; Identify challenges to use and best practices associated with use of PICASC generated climate adaptation decision support tools and comparable science- and equivalent knowledge-based products;
3. Develop syntheses-based guiding documents intended to increase the impact of co-produced science- and equivalent knowledge-based products on climate change adaptation management of natural and cultural resources by intended beneficiaries of products/tools;
4. Identify means to increase the breadth and depth of this impact both among targeted co-user groups and among potential beneficiaries, particularly indigenous groups, historically marginalized communities, and underserved communities and locations across the Pacific.
5. Engage with managers, researchers, and relevant community members to bridge the identified gaps and increase the impact of climate change science and equivalent knowledge forms on climate change adaptation.
6. Project outcomes may include augmenting products to increase their impact, developing a draft a strategy for co-production engagement strategies that would more effectively develop useable outcomes for managers and other decision makers to address climate-related natural and cultural resource management challenges, developing technology transfer guidance, etc..

**Mentor:** The mentor for this opportunity is Mari-Vaughn Johnson ([mvjohnson@usgs.gov](mailto:mvjohnson@usgs.gov)). If you have questions about the nature of the research please contact the mentor.

**Anticipated Appointment Start Date: Fall 2022.** Start date is flexible and will depend on a variety of factors.

**Appointment Length:** The appointment will initially be for one year, but may be extended for up to four more years upon recommendation of USGS and is contingent on the availability of funds.

**Level of Participation:** The appointment is full-time.

**Participant Stipend:** The participant will receive a monthly stipend commensurate with educational level and experience.

**Citizenship Requirements:** This opportunity is available to U.S. citizens, Lawful Permanent Residents (LPR), and foreign nationals.

**ORISE Information:** This program, administered by ORAU through its contract with the U.S. Department of Energy (DOE) to manage the Oak Ridge Institute for Science and Education (ORISE), was established through an interagency agreement between DOE and USGS. Participants do not become employees of USGS, DOE or the program administrator, and there are no employment-related benefits. Proof of health insurance is required for participation in this program. Health insurance can be obtained through ORISE.

**Questions:** If you have questions about the application process please email [USGS@orau.org](mailto:USGS@orau.org) and include the reference code for this opportunity.

**Qualifications** The qualified candidate should have received a master's or doctoral degree in one of the relevant fields listed in the eligibility requirements section. Degree must have been received within the last ten years.

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Ideal candidate is self-motivated and able to function independently and as part of a team.

Strong and sustained communications skills are essential.

Preferred Experience With:

- Pacific Islander cultures, governance, heritage, and history
- Co-management and multi-jurisdictional management of natural and cultural resources
- Identifying barriers to communication, access to knowledge, and ability to build relationships and transfer knowledge across communities
- Climate change science translation and communication of climate concepts to diverse audiences.
- Developing and conducting structured interviews and or listening sessions
- Developing quantitative and/or qualitative metrics for heterogeneous data and purposes.
- Management and analysis of large data sets to determine correlations, trends, etc.
- Analysis/synthesis of research outcomes and communication of their importance and value (especially in the context of various value systems).
- Developing relationships with diverse groups, including resource managers, community leaders, scientists, schools, and other co-users of climate science and equivalent knowledge.
- Interpreting, collecting, analyzing, synthesizing, and communicating science and equivalent knowledge.

**Eligibility Requirements**

- **Degree:** Master's Degree or Doctoral Degree received within the last 120 month(s).
- **Discipline(s):**
  - **Business** (11 )
  - **Communications and Graphics Design** (6 )
  - **Computer, Information, and Data Sciences** (17 )
  - **Earth and Geosciences** (21 )
  - **Engineering** (27 )
  - **Environmental and Marine Sciences** (14 )
  - **Life Health and Medical Sciences** (49 )
  - **Mathematics and Statistics** (11 )
  - **Other Non-S&E** (13 )
  - **Other Physical Sciences** (12 )
  - **Other S&E-Related** (2 )
  - **Physics** (16 )
  - **Social and Behavioral Sciences** (29 )
- **Veteran Status:** Veterans Preference, degree received within the last 120 month(s).