



Disaster & Climate Risk Data Fellows

Short Term Consultant (STC)

Terms of Reference

Job Title:	Disaster & Climate Risk Data Fellows
Unit:	GFDRR
Location:	Remote location with mission travel
Days:	75
Starting Date:	January 2023
Language:	English

Background

Global Facility for Disaster Reduction and Recovery (GFDRR)

The Global Facility for Disaster Reduction and Recovery (GFDRR) is a multi-donor partnership that supports low and middle-income countries to understand, manage, and reduce their risks from natural hazards and climate change. Established in 2006, GFDRR is uniquely positioned to scale the resilience agenda in these countries by providing funding and expertise for policy advice on improving disaster risk management (DRM) at national and local levels, as it relates to land use, building codes, public health, transport, and education, agriculture, environmental protection, energy, water resources management, poverty reduction, fiscal risk management, and climate change adaptation, among others. In the context of the World Bank's policy-based lending, this advice creates both technical capacity and financial incentives that enable the formalization of policy changes for improved DRM. The Project Management Unit, located within the World Bank, manages grant resources to carry out GFDRR's mission.

Digital Earth Partnership

As part of the GFDRR's thematic areas, the Digital Earth Partnership team aims to enhance the resilience of vulnerable countries and communities to climate change and natural hazard disasters through greater access to and adoption of frontier earth observation tools & services. This is achieved by developing and transferring global knowledge, mobilizing key partnerships, and providing operational support to client-executed and Bank activities in producing and using earth observation for resilience. The initial key partner of Digital Earth is the European

Space Agency (ESA) through a cooperation framework linked to the ESA Global Development Assistance (GDA) program.

Risk Data Library Standard

Managed by the Digital Earth Partnership, the Risk Data Library Standard (RDLS) is an open data standard to make it easier to work with disaster and climate risk data. It describes the data used and produced in risk assessments, including hazard, exposure, vulnerability, and modeled loss or impact data. The RDLS provides a unique way to create, store, exchange and use disaster different risk information together. It is at the core of the Risk Data Library, a suite of open-source tools to work with disaster and climate risk data. The RDLS has been adopted by World Bank for disaster and climate risk assessments but is intended to be used by anyone involved in generating or using disaster risk information. It is a collaborative project managed by the Global Facility for Disaster Reduction and Recovery (GFDRR) of the World Bank Group, with funding from the Swiss Re Foundation.

Disaster & Climate Risk Data Fellows

The fellowship program will offer a 6-month placement for climate and disaster risk professionals (data scientists, geospatial analysts, and similar) from selected climate-vulnerable countries to work with the Risk Data Library Standard to access, create and communicate climate risk knowledge with their communities.

The selected countries are:

- Bangladesh
- Democratic Republic of the Congo
- India
- Indonesia
- Philippines
- South Africa

The fellows should be residents or nationals of the selected countries.

During this time, fellows will work part-time as World Bank Short-Term Consultants. Through a dedicated program, they will learn how to apply and use the Risk Data Library tools and standards in support of World Bank projects and for the benefit of their institution and communities.

The expected outcomes are increased availability, dissemination, and use of climate risk knowledge in climate-vulnerable and fast-growing cities and countries. The activity will complement and leverage climate and disaster risk analysis undertaken in those countries by the World Bank under the new Climate Change Action Plan and through Disaster Risk Management operations.

Disaster and Climate Risk Data Fellows will be selected based on their data skills, climate and disaster risk skills, and willingness to support their communities. They will receive training and hands-on support throughout the project to become Risk Data Library experts and contribute



to improving climate risk analysis using the Risk Data Library.

Duties and Responsibilities

Scope of Work

The Disaster & Climate Risk Data Fellows will lead the development of the Risk Data Library Standard and contribute to its impact and adoption by World Bank and external users. The Fellows will be part of the GFDRR Digital Earth team and work under the remote supervision of Pierre Chrzanowski, Disaster Risk Management Specialist at GFDRR.

Specific Tasks

- Champion the principles and processes supporting the RDLS and endeavor to further its adoption and that of open-risk data more broadly.
- Contribute to the development and sharing of new risk datasets using the RDLS within ongoing and new climate and disaster risk studies
- Identify existing climate and disaster risk data and make them available as open data through the RDL.
- Contribute to new climate and disaster risk data analytics and visualization.
- Organize training and outreach events on climate and risk data and the RDLS.
- Contribute to blog posts, social media, press releases, podcasts, and other media material.
- Write the final fellowship report and the presentation of their project.

Number of days

Initial contract of 75 days from January to June 2023 (with a possible extension until September 2023)

Selection Criteria

Key qualifications required for this assignment include the following:

- Student, Master, Ph.D. or any level in the field of climate change, disaster risk management, geospatial technologies, computer science, or other relevant fields;
- Experience working with digital technologies for disaster risk assessment and their communities, including digital platforms, data, models, and standards;
- Demonstrated data science or geospatial analytics knowledge and skills;
- Capacity for effective multi-tasking with a demonstrated ability to be an independent starter with minimal supervision and a high capacity to persevere for results;
- Proven ability to carry-out independent policy-relevant research, translate theory into practical applications, and adapt professional knowledge and technical skills to analyze, diagnose and propose solutions to policy issues and challenges related to climate change and disaster risk management;
- Strong communication and advocacy skills, including the ability to write concisely and



GFDRR
Global Facility for Disaster Reduction and Recovery



Administered by
THE WORLD BANK
IBRD • IDA | WORLD BANK GROUP

clearly and synthesize complex documentation and ideas for a range of audiences, including through social media;

- Excellent interpersonal skills and proven ability to work in a team and intercultural environment;
- Proficiency in English and ability to work in an environment of diverse cultures;
- Ability to work independently with minimum supervision and to meet tight deadlines.

Please send a CV, letter of interest, and online portfolio of past projects to agarciatapia@worldbank.org and copy to pchrzanowski@worldbank.org by December 9, 2022 with the subject "Risk Data Fellow Application."