



# Fellowship Programme 2023-24

## Awardees



DELIVERING **DRI SOLUTIONS** FOR A RESILIENT WORLD

# Themes for 2023-24

## Inclusive and Resilient Infrastructure Amid Global Transitions



**People-centred solutions**  
for infrastructure resilience –  
facilitating the agency of women  
and other under-represented groups



**Capacity building**  
for infrastructure resilience – at  
scale, at speed



**Social infrastructure**  
systems for tomorrow –  
effective and efficient delivery  
of services for social well-being



**Interdependent infrastructure systems**  
for resilient communities



**Urban infrastructure resilience**  
through futures thinking and  
foresight approaches

**Fellowship Amount – US\$ 15000 | Duration – 12 months**



**DELIVERING DRI SOLUTIONS FOR A RESILIENT WORLD**

# International Jury



**Ms Marjorie Greene**

(Retired) Special Projects Manager at Earthquake Engineering Research Institute (EERI)



**Prof Jim Hall**

Professor of Climate and Environmental Risk School of Geography and the Environment, University of Oxford



**Prof Satoru Nishikawa**

Professor, Disaster Mitigation Research Center, Nagoya University



**Prof Ravi Sinha**

Professor, Department of Civil Engineering, IIT Bombay

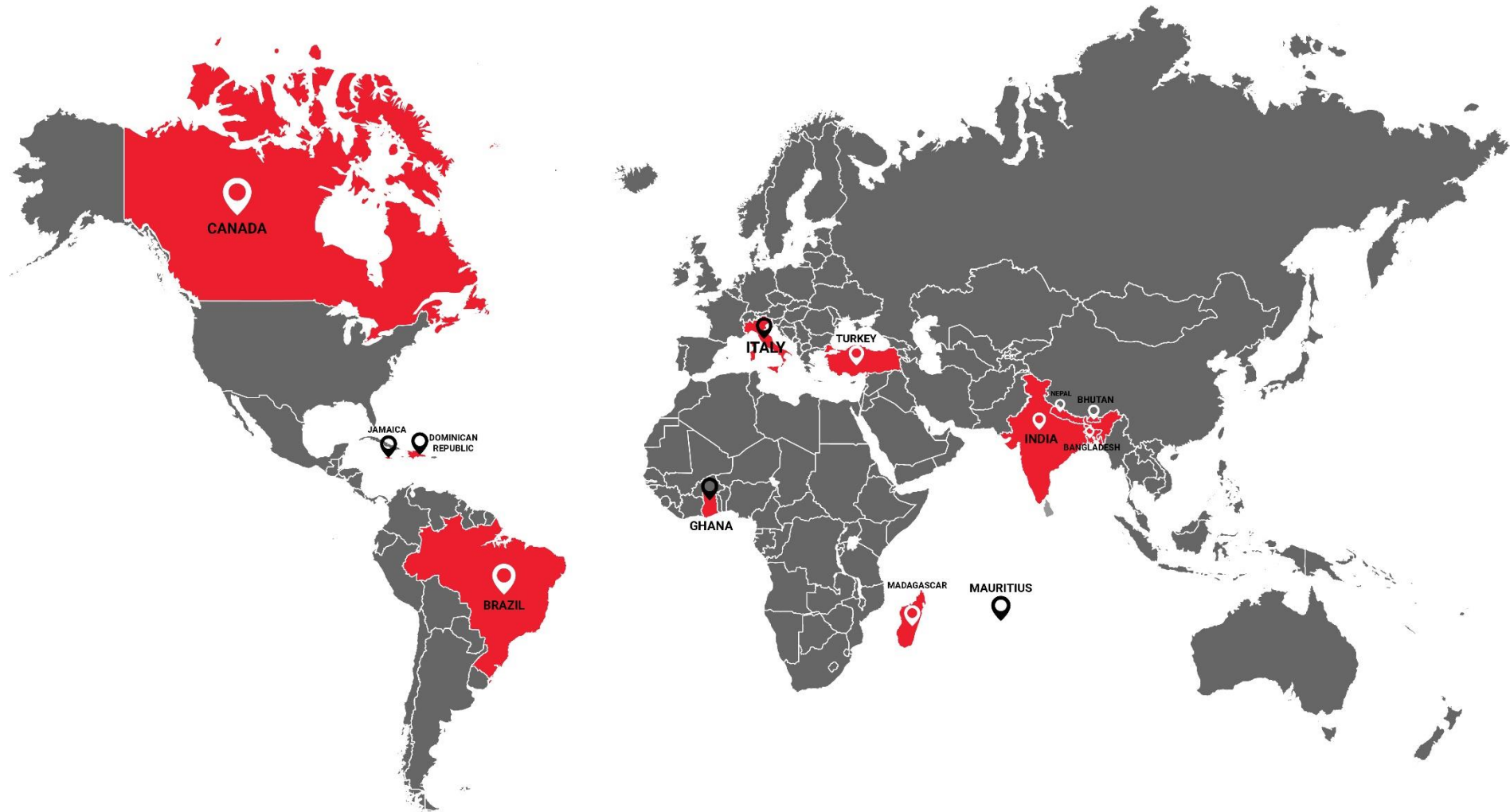


**Ms Deepali Khanna**

Vice President, Asia Regional Office, The Rockefeller Foundation



# 18 Fellowship Awardees from 13 Member Countries



**66%**



**34%**

# Presenting Cohort 2023-2024



**DELIVERING DRI SOLUTIONS FOR A RESILIENT WORLD**

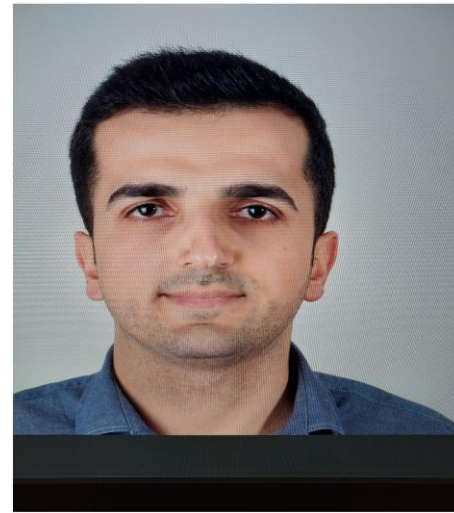
# Earthquake Resilience of Healthcare Facilities in Kocaeli Region, Türkiye



**A.Can Zulfikar**

Assoc. Prof

Principal Investigator (Team leader)



**Ali Ikbal Tutar**

Research Assistant

Civil Engineering Department  
Gebze Technical University



**Wilfrid G. DJIMA**

PhD Student

# **Increasing the Flood Resilience of Populations in Deprived Urban Areas**



**Fenosoa Ramiaramananana**

PhD Student at the University of Liege, Belgium  
University of Twente, The Netherlands

# **Nature-Based Solutions Applied To Unpaved Roads Engineering (NATURE)**



**Mariana Ramos Chrusciak**  
Full Professor in Geotechnical Engineering  
Universidade Federal de Roraima - UFRR



**Bruna Lopes**  
Lecturer in Geotechnical Engineering  
Newcastle University



# **Forecasting Inclusion of Sustainable Drainage Systems in Flood Management of Small Steep Basaltic Formations Using Hydraulic Modelling Techniques**



**Manta Devi Nowbuth**

Associate Professor  
Faculty of Engineering  
University of Mauritius

# **Landslide Risk Mapping and Development of Landslide Database and Mobile App for Bhutan**



**Thongley**  
Associate Lecturer



**Younten Tshering**  
Lecturer

Jigme Namgyel Engineering College  
Royal University of Bhutan

# Enhancing Disaster Resilience in Mountain Geographies through Institutionalising a Multi-Stakeholder Network, Processes and Mechanisms



**Mir Sumira**  
Research Scholar



**Peer Jeelani**  
Research Scholar

Department of Geography & Disaster Management  
University of Kashmir, Srinagar

# **Seismic Hazard, Floods and Physical Vulnerability of Buildings in the Coastal Area/South Municipality of Barahona**



**Nicolás Esteban Azcona  
Rodríguez**  
Principal Investigator



**Yenipher Batista  
Sánchez**  
Assistant Investigator



**Pamela Mármol  
Méndez**  
Technical Assistant

Servicio Geológico Nacional

# Evidence-Based Decision Support Tool for Implementing Integrated Water Resources Management in Government Schools



**Priyanka Jamwal**

Fellow



**Durba Biswas**

Adjunct Fellow

Centre for Environment and Development  
Ashoka Trust for Research in Ecology and The Environment

# DeepINDRA: Detecting Flood Inundation Using Deep Learning and Citizen Science



**Manabendra Saharia**

Assistant Professor, Dept. of Civil Engineering  
& Yardi School of AI  
Indian Institute of Technology Delhi

# **Bottom-Up Approach to Uptake Pre-Disaster Recovery Strategy Through Advance Cyclone Classifier Model in South-Western Zone in Bangladesh**



**Md. Munsur Rahman**  
Professor



**Md. Rayhanur Rahman**  
Research Associate



**Md. Manjurul Hussain**  
Research Associate

Institute of Water and Flood Management  
Bangladesh University of Engineering and Technology

# Urban Cooling to Mitigate Heat Exposure in Nepalese Cities: Geo-Spatial Assessment of Green Roofs, Urban Parks and Wetlands



**Rocky Talchabhadel**

Assistant Professor

Department of Civil & Environmental Engineering  
Jackson State University



### Framework for Establishing Agri-Voltaic Systems for Regional Energy Security



**Sameer  
Deshkar**

Associate Professor  
VNIT, Nagpur, India



**Shreya  
Joshi**

Ph.D. Research Scholar  
VNIT, Nagpur, India



**Rajashree  
Kotharkar**

Professor  
VNIT, Nagpur, India



**Bijon Kumer  
Mitra**

Deputy Director  
IGES, Japan



**Makarand  
Lokhande**

Assistant Professor  
VNIT, Nagpur, India

# **Community Disaster Resilience Assessment by Integrating Functionality of Buildings and Critical Infrastructure Systems**



**Sohel Rana**

Research Lecturer

Chittagong University of Engineering & Technology



**Subhrajit Dutta**

Assistant Professor

National Institute of Technology  
Silchar



**Ram Krishna**

**Mazumder**

Asset Management Consultant/Engineer  
Arcadis U.S. Inc.

# Debris Flow Risk Mapping and Early Warning for People Safety and Infrastructure Resilience



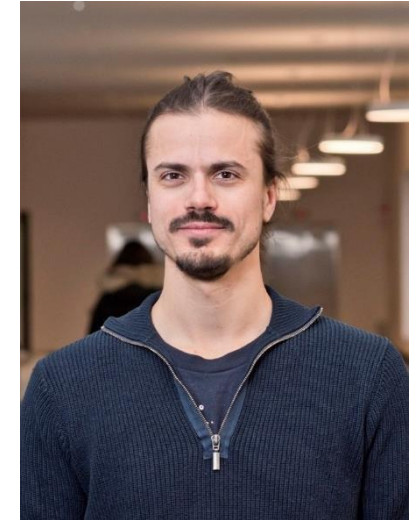
**Marco Redaelli**  
Technical Specialist -  
Geohazards  
Regione Lombardia



**Elena Ioriatti**  
PhD Student  
University of Bologna



**Rodolfo Rani**  
PhD Student  
University of Bologna



**Velio Coviello**  
Researcher  
CNR-IRPI

# Strategic Actions to Build Resilience for All (SARAL)



**Kanika Bansal**  
Senior Programme Associate



**Utsav Choudhury**  
Team Lead

BASIIC Programme  
National Institute of Urban Affairs

# Resilient Infrastructure Planning for Fragile Socio-Ecological System of Wetlands



**Surabhi Mehrotra**

Assistant Professor  
Maulana Azad National Institute of  
Technology, Bhopal



**Ksh Lal Bihari Singha**

Professor  
Manipur University, Imphal

# Assessing Nature-Based Solutions for Rainfall Runoff Reduction in the Assiniboine Watershed



**Sheika Henry**  
Assistant Professor



**Balfour Spence**  
Professor

Brandon University, Canada

# Incorporating Urban Greenery/Detention Pond in Urban Flooding Management in the Mamahuma Basin



**Kwaku Amaning Adjei**

Principal Investigator  
Associate Professor



**Ing. Richard Kofi Amekor**

PhD Student, Head of Drainage  
Ghana Hydrological Authority

Regional Water and Environmental Sanitation Center  
Kwame Nkrumah University of Science And Technology, Kumasi



# Congratulations!

## **CDRI** Fellows 2023-24



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