

Job Description

Risk Modelling Analyst

Organization	Coalition for Disaster Resilient Infrastructure (CDRI)
Job posting date	29 May 2025
Location	New Delhi, India
Grade and No. of position	Specialist (1)
Salary and Benefits	Competitive
Contract	Fixed Term Contract (3 years), extendable for up to another 3 years, Full-Time, National /International Hire.
Applications Closing date	Applications will be reviewed on a rolling basis, with priority given to early submissions during the shortlisting and selection process. The position will remain open until it is filled.

About CDRI

The Coalition for Disaster Resilient Infrastructure (CDRI) is a partnership of national governments, UN agencies and programs, multilateral development banks and financing mechanisms, the private sector, and knowledge institutions that aims to promote the resilience of new and existing infrastructure systems to climate and disaster risks in support of sustainable development.

Mission

"To support countries to upgrade their systems to ensure disaster and climate resilience of existing and future infrastructure."

Impact (that CDRI aims to achieve)

By 2050, over US\$10 trillion of new and existing infrastructure investments and services are resilient to natural hazards and climate change through enhanced capacity, informed policy, planning, and management, leading to improved quality of environment, livelihood, and life of over 3 billion people.

CDRI Mandate & Value Proposition

CDRI has been envisioned and established as a global network to advance the agenda, support coordinated action among stakeholders, and focus on bringing voices from vulnerable geographies and populations to international policy forums. Internationally agreed-upon goals in the SFDRR, the SDGs, and the Paris Climate Agreement provide the foundational framework that guides the Coalition's vision and mission.

As a global partnership, the Coalition aims to ensure that the investments of its members and partners are aligned and well-coordinated in support of the shared ambition of disaster and climate resilience of new and existing infrastructure. The two unique yet interconnected roles that CDRI shoulders in this direction are:

- A Strong Coalition Driving Collaborative DRI Action: In 2025, CDRI stands as a partnership of 46 national governments and seven international organizations. The Coalition enjoys robust political support, which propels its efforts to advance the interests of its members and partners.
- A Solution-Focused Centre of Excellence for DRI: As a Centre of Excellence for DRI, the Coalition strengthens the individual and collective capacities of its members and partners by aggregating and sharing knowledge, brokering need-based partnerships, and strengthening capacities through collaborative learning and action.

Strategic Work Plan 2023-2026

CDRI's Strategic Work Plan 2023-26 describes the broad contours of its priority actions and planned initiatives in the next four years. The Strategic Work Plan sets out a clear direction for the Coalition to pursue a transformational agenda for DRI in response to a changing risk landscape and evolving on-ground realities of its members. In the next four years, the Coalition will continue to leverage the expertise of its Member Countries and partners to develop context-specific, innovative solutions for resilient infrastructure towards the achievement of national priorities and global commitments of its members.

With the strategic work plan for 2023 – 2026, CDRI has set out the following strategic outcomes.

Strategic Outcome 1: A strong Coalition that has the membership, resources, and global leadership to drive global, national, regional, and local DRI action.

Strategic Outcome 2: Global DRI research, Coalition-led peer engagement, and CDRI-curated and generated knowledge promote risk-informed policy and practice.

Strategic Outcome 3: Enhanced capacities of government, private enterprises, and communities to implement post-disaster recovery and DRI action at scale.

CDRI Headquarters (Secretariat)

The CDRI headquarters is established in New Delhi, India, to act as the Secretariat of the Coalition. The Secretariat functions under the direction of the International Governing Council and the Executive Committee to implement the programmes of CDRI.

Position

The position is open to candidates of all nationalities.

All nationals demonstrating 10 years of international work experience in at least 5 countries across 2 UN geographic regions (from Africa, Asia, Europe, Latin America and the Caribbean, North America, and Oceania) would be considered for international positions (International hire).

Objective of the position:

CDRI is establishing a Data and Technology team to enable its member countries to use earth observation, geospatial, and infrastructure risk data and models combined with relevant technologies for informed decision-making that strengthens the resilience of their existing and future infrastructure. CDRI is looking for a Risk Modeling Analyst to join this team and take responsibility for the various risk modeling and analytics activities of this team.

Key Roles and Responsibilities:

- Prepare the data and run custom analytics for CDRI's Global Infrastructure Risk Model and Resilience Index (GIRI) and other infrastructure risk analysis models to support internal CDRI teams and member country users for various use cases and projects.
- Work with the Product Owner and Biennial Report team, as well as other teams at CDRI, in the development of the roadmap and RFP for future versions of GIRI and other analytical tools and products.
- Work with internal CDRI teams and modeling consultants in the review and approval of the scope of work, as well as the QA/QC and acceptance of deliverables.
- Assist other CDRI teams and member countries in the understanding of disaster risk analytics, sensitivity studies & risk modeling outputs.
- Prepare and make presentations and conduct training sessions on various infrastructure risk and resilience modeling topics for internal and external stakeholders.
- Support in the development of Risk Modelling tools in collaboration with strategic partners of CDRI.
- Provide strategic and programmatic inputs to the projects supported by CDRI in the area of risk modeling and assessment.

Skills

- Highly developed analytical, problem-solving, presentation, and communication skills.
- Critical thinking skills and precise attention to detail, along with the ability to prioritize work across multiple accounts.
- Capacity to work independently, willingness to seek guidance as needed, ability to maintain good working relationships with collaborators and counterparts, and ability to follow up effectively on various issues as required.
- Outstanding interpersonal and organizational skills, mature judgment, ability to collaborate with others in a multicultural environment, and ability to remain flexible and motivated in a dynamic, fast-paced work environment.

Qualifications:

- Master's degree in quantitative fields such as mathematics, statistics, engineering, science, or finance with advanced coursework in statistics, data science, and/or climate science. Candidates with international education are desirable.

Experience:

- 5-8 years of experience in catastrophe risk modeling (RMS, AIR, or open-source models like CLIMADA and the OASIS LMF).
- Experience working in an international organization and with a diverse number of partners comprising Governments, the UN, multi-lateral systems, industry, financial institutions, and knowledge and research institutions in multi-country locations.
- Knowledge of probabilities, statistics, simulation, & stochastic modeling techniques.
- Knowledge of P&C insurance and reinsurance coverage and loss-related financial metrics is an asset.

- Skills in database management, including but not limited to MS Word, Excel.
- Coding/programming in languages such as VBA, Microsoft SQL Server, R, and Python are asset
- Experience with data visualization and mapping tools (e.g., Spatial Key, ERSI Arc Map, Tableau) is an asset.
- Experience working in an international organization and with a diverse number of partners comprising Governments, the UN, multi-lateral systems, industry, financial institutions, and knowledge and research institutions in multi-country locations.

Reporting Line:

- The incumbent will report to the Director or the appropriate role per the approved organizational structure.

Language Requirements:

- Fluency in English, both oral and written.
- Knowledge of any of the UN's official languages will be an asset.

How to Apply:

If you have experience working in a similar capacity and want to make an active and lasting contribution to a global initiative spearheaded by India, please apply through the online application form only: <https://app.cdri.world/career/public/>.

CDRI is committed to achieving workforce diversity in terms of gender, nationality, and culture. Individuals with disabilities are equally encouraged to apply. All applications will be treated with strict confidence.

CDRI has ZERO Tolerance for sexual exploitation and abuse, any kind of harassment, including sexual harassment and gender / racial discrimination. Any selection, therefore, will be subject to satisfactory reference and background checks.
