Position: Research Associate/Associate Fellow
Division: Earth Sciences and Climate Change Division
Area: Centre for Climate Change Research (CCCR)
Location: New Delhi

Division Overview:

TERI's Earth Science and Climate Change Division has the vision to enhance and improve the knowledge of different processes that lead to climate change, their impacts, and vulnerability to different sectors and livelihoods and also to assess adaptive policy making. The division consists of the Centre for Climate Change Research (CCCR) which focuses on eight specific work pillars themed around climate science and modelling; impacts, vulnerabilities, and adaptation; transparency frameworks; refrigerant transitions; technology assessments for decarbonisation pathways; climate finance and markets; climate negotiations and IPCC reports; and gender mainstreaming in climate adaptation and mitigation strategies. The Centre's research dates back to 1988, and the current work builds on this vast experience. CCCR has been successful in impacting regional, national, and global efforts toward climate mitigation and adaptation.

Position Overview:

TERI is seeking an individual for a Research Associate/Associate Fellow position to join the Centre for Climate Change Research (CCCR). This position provides a unique opportunity for those willing to work in the domain of hydrologic modelling and water resources management to facilitate the research and implementation of TERI's climate adaptation, impact, and resilience work. Knowledge of scientific principles and techniques pertaining to hydrology research and monitoring including field-based data acquisition, management, and analysis. As a core team member, the candidate will be primarily responsible for contributing to work under several projects being undertaken with the government, bilateral and multilateral on Hydrological Modelling and River Hydrology, Urban Flood Assessment, Dam Break Analysis, Spatial modelling, DRR, and physical impact and risk assessments.

Job Responsibilities:

- Knowledge of diverse and complex elements of hydrologic science, different hydrological modelling platforms used globally, and having knowledge of new and evolving hydrological and meteorological data collection methods and sensors.
- Working experience in Hydrological modelling using HEC-RAS, ArcGIS, SMS, SWAT.
- Knowledge of statistical methods to review, analyse and interpret data and produce reports.
- Experience in developing Early Warning and inundation forecasting System for various use cases
- Knowledge of model parameterization methods and implementation of improvements to modelling frameworks.
- Demonstrated track record of Hydrologic and computational modelling and coding and ability to efficiently use computer hardware and software for data collection, data management, synthesis and modelling, and presentations (e.g. MS Office, R, MATLAB, Python, ArcGIS, QGIS, Delft-FEWS, and other statistical and modelling software).
- Ability to conceptualize, design, and implement a hydro-climate database
- Ability to produce scientific reports of high technical quality suitable for publishing in peer reviewed journals
- Knowledge of technical and plain language report writing methods, practices and standards to produce detailed scientific study/survey reports.

- Liaising with government and non-governmental entities dealing in the area of climate science, impact, and disaster resilience at the national, international, and sub-national levels.
- Compilation of project reports (technical and financial) and submission to clients
- Assistance in writing research papers, journal articles, and blogs.
- Organizing internal and external meetings, workshops, and conferences along, with preparing, and identifying relevant stakeholders, etc.
- Business development, Project management, planning, execution, and managing client interactions

Required Educational Qualifications:

Completion of a post graduate degree (MTech/ME/M.Sc.//PhD) in **Hydrology**, Environmental Sciences or Engineering, Civil and Environmental Engineering Water Resources Management or Engineering with at least two (2) years of experience in the hydrological modelling and relevant experience in either the public or private sectors, preferably with experience conducting hydrology research and implementation work. Equivalent combinations of education and experience will be considered.

Work Experience:

- At least two (2) years of experience in the **hydrological modelling** and relevant experience in either the public or private sectors, preferably with experience conducting **hydrology research** and implementation work

Skills:

- Oral and written communication skills, including the ability to read, understand and effectively communicate, to both professional and lay audiences, complex scientific ideas including methodologies and reports.
- Project management, organizational and logistical skills to effectively manage and participate both in independent and collaborative research projects and lead field projects.

Salary and Benefits: As per industry standards

How to Apply: You can send your Resume to tripti.patra@ter.res.in by 12th January, 2025 with a subject line **"Application for the position of Research Associate/Associate Fellow-Hydrologist in CCCR"**