Regional Integrated Multi-Hazard Early Warning System
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Job Posting

Issue date: 25 November 2026

Position Title: **Seismic and Tsunami Hazard Analyst**
Due to the operational nature of this role, preference will be given to applicants who are currently based in Thailand and possess valid work authorization. RIMES is committed to diversity and equal opportunity in employment

Open Period: **25 November 2026 - 24 December 2026**

Background: The Regional Integrated Multi-Hazard Early Warning System for Africa and Asia (RIMES) is an international and intergovernmental institution, owned and governed by its Member States, for the generation, application, and communication of multi-hazard early warning information. RIMES was formed in the aftermath of the 2004 Indian Ocean tsunami, as a collective response by countries in Africa and Asia to establish a regional early warning system within a multi-hazard framework, to strengthen preparedness and response to trans-boundary hazards.

RIMES was formally established on 30 April 2009 and registered with the United Nations on 1 July 2009. It operates from its regional early warning center located at the Asian Institute of Technology (AIT) campus in Pathumthani, Thailand.

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Position Description: The Seismic and Tsunami Hazard Analyst provides RIMES' in-house technical expertise on tsunami and earthquake hazard, monitoring, risk and early warning across RIMES programmes. The role covers tsunami hazard and inundation modelling, earthquake monitoring and seismological analysis (including the evaluation of tsunami potential), technical support to National Tsunami Warning Centres (NTWCs) and their standard operating procedures (SOPs), integration of tsunami information into multi-hazard early warning and decision support systems, and capacity building of national institutions. The Analyst supports RIMES projects and other relevant RIMES work, including regional earthquake and tsunami services, as assigned by the designated direct supervisor. Time allocation across programmes will follow the approved staff charging plan and may be adjusted according to programme needs.

Duty station: RIMES Regional Facility, AIT Campus, Pathumthani, Thailand.

Type of Contract: Full time, project based Contract

Minimum Qualifications

Knowledge

- Master's degree in seismology, geophysics, coastal engineering, physical oceanography, earth and marine sciences, or a closely related field. A doctoral degree, or specialised training in tsunami modeling or tsunami hazard and risk assessment, is an advantage.
- Sound understanding concepts of earthquake seismology, seismic wave propagation, and tsunami generation, propagation and inundation, and of seismic source characterisation for tsunamigenic earthquakes.
- Sound knowledge of numerical modeling, scenario-based forecasting, and/or probabilistic modeling (probabilistic seismic hazard assessment (PSHA) and probabilistic tsunami hazard assessment (PTHA)). Experiences of tsunami inundation, evacuation mapping, and exposure and vulnerability analysis, is an advantage.
- Familiarity with the Indian Ocean Tsunami Warning and Mitigation System (IOTWMS), Tsunami Service Provider products, NTWC operations, threat levels and SOPs; knowledge of sea-level monitoring (e.g., tide gauges, DART buoys) is an asset.
- Understanding of end-to-end multi-hazard early warning systems (EW4All pillars), impact-based forecasting and warning, and the Common Alerting Protocol (CAP).

Experience

- At least 5 years of experience in tsunami hazard assessment and modelling, seismology, or tsunami and earthquake early warning operations. Candidates should have strong expertise in either numerical modelling, earthquake seismology, or disaster management, with working experience in the others preferred.
- Hands-on use of tsunami numerical models (e.g., COMCOT, TUNAMI-N2, MOST/ComMIT, JAGURS, GeoClaw or similar), including set-up with bathymetry and high-resolution elevation data (e.g., LiDAR-derived DEMs), and experience in producing tsunami hazard or inundation maps and related technical reports.
- Experience in real-time-/post- seismic data processing and earthquake analysis (e.g., SeisComP, Antelope, Earthworm or similar); experience in seismic hazard or risk assessment is an advantage.
- Experience working with, or in support of, an NTWC or a national meteorological, geophysical or disaster management agency (e.g., SOP development, exercises, operational support).
- Experience in capacity building and in multi-stakeholder, international or donor-funded projects (e.g., GCF, World Bank, UN agencies) is an asset; experience in Small Island Developing States or low-lying coastal settings, and scientific publications or contributions to IOC-UNESCO/ICG working groups or exercises, are desirable.

Skills and Abilities

- Proficiency in GIS (QGIS/ArcGIS) and in scientific programming and data analysis (e.g., Python, MATLAB, Fortran), including work in Linux and high-performance computing environments.
- Excellent technical writing, presentation and training skills, with the ability to explain technical results to non-specialist users and decision-makers.

- Fluency in oral and written English is required; proficiency in Thai is an advantage. Good interpersonal skills and the ability to work effectively with government counterparts and multicultural, interdisciplinary teams.

Personal Qualities

- Analytical, self-driven and reliable, with sound judgement under time pressure and the ability to manage assignments across several programmes and deadlines; willing to be on standby duty during tsunami events or exercises, and to travel to the Maldives and other RIMES Member States.

Major Duties and Responsibilities:

The Seismic and Tsunami Hazard Analyst shall report to the Head of Operations and Programs, and/or Team Lead of 24/7 Earthquake Monitoring & Tsunami Watch and work closely with the Project Manager for assignments, and with the relevant Technical Leads and project teams, to undertake the following responsibilities, according to agreed priorities and the approved work plans:

1. **Tsunami hazard and risk assessment:** Develop tsunami source scenarios relevant to each programme area (including the Sunda–Andaman, Makran subduction zones, and other relevant sources); carry out tsunami propagation and inundation modelling using available bathymetry and elevation data, including the LiDAR-derived DEM to where available for the assignment; produce tsunami hazard and inundation maps for priority islands and coastal areas and contribute the tsunami component to multi-hazard risk mapping and the risk atlas, in coordination with the GIS and risk-assessment teams; and assess the exposure of population, critical infrastructure and economic sectors to tsunami, using disaggregated data where available, to support impact-based warning and risk-informed planning.
2. **Earthquake monitoring and seismological analysis:** Analyse real-time seismic data to identify earthquake parameters, and evaluate tsunami potential, as the first step of the tsunami warning chain; support the operation, configuration and data quality of seismic monitoring and analysis systems (e.g., SeisComP) and international seismic data resource; review seismic network coverage and provide technical inputs to the design and specifications of seismic stations and systems, where applicable; prepare post-earthquake event reports; and contribute seismic hazard inputs (e.g., ground-shaking scenarios, probabilistic seismic hazard assessment) to multi-hazard risk assessments, particularly for RIMES Member States with significant earthquake risk.
3. **Tsunami early warning and operational support:** Support to 24/7 earthquake and tsunami services and programme, including support NTWCs in reviewing and strengthening tsunami warning SOPs, threat levels, decision criteria and the interpretation of Tsunami Service Provider bulletins; develop or adapt decision-support tools such as pre-computed scenario databases, forecast points and threat-level matrices; provide tsunami-specific inputs to the design, testing and operation of multi-hazard alerting systems and decision support systems, including Common Alerting Protocol (CAP) alert templates and message content; support communication tests and tsunami exercises (e.g., IOWave) and prepare exercise and post-event reports; and contribute to RIMES' regional earthquake and tsunami monitoring and services, including standby duty during events as assigned.

4. **Assessment and technical advisory:** Guide the tsunami and seismic component of assigned project and other relevant RIMES work, including interviews, UNA and baseline assessment, evidence review, grading and recommendations; identify gaps in modeling and monitoring resource, data exchange and warning procedures, and recommend practical improvements and investment priorities; provide technical inputs to the specifications of tsunami-relevant equipment and systems procured under RIMES programmes, where applicable; and coordinate with national disaster management agencies and partners so that tsunami warnings meet end-user requirements (who acts, what action, lead time and information needed), including for women, persons with disabilities and remote island communities.
5. **Capacity building and knowledge management:** Design and deliver training for NTWC and partner staff on tsunami science, modelling, warning operations and SOPs; prepare training materials, manuals, technical reports, guidance notes and outreach materials that translate tsunami science into user-relevant information; maintain complete documentation of data, model inputs and outputs for handover to national counterparts; and contribute to regional cooperation and knowledge exchange on tsunami early warning among RIMES Member States.
6. **Programme development, research and reporting:** Contribute to concept notes and proposals for earthquake and tsunami, and multi-hazard early warning initiatives; conduct applied research to improve the speed, accuracy and usefulness of tsunami warnings and publish results where appropriate; and prepare monthly progress reports and inputs to project and donor reports.
7. **Other duties:** Perform other related duties as assigned by the immediate supervisor.

Reporting: The Seismic and Tsunami Hazard Analyst shall report to the Head of Operations and Programs as the Immediate Supervisor and to the Team Lead of 24/7 Earthquake Monitoring & Tsunami Watch as the Technical Supervisor. The Immediate Supervisor shall assign work priorities across RIMES projects and other relevant RIMES work and oversee performance. The Technical Supervisor shall provide technical guidance and review technical outputs before they are shared with counterparts. Staff time charged to project budgets shall reflect actual contributions to approved project outputs, supported by timesheets and reviewed with the Immediate Supervisor and relevant Project Managers in accordance with applicable funding arrangements

How to Apply:

Interested candidates should send your application letter, resume to rimeshra@rimes.int by midnight of **24 December 2026**, Bangkok time. Please state **" Seismic and Tsunami Hazard Analyst : Your Name "** the Subject line of the email. Only short-listed applicants will be contacted.

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RIMES promotes diversity and inclusion in the workplace. Well-qualified applicants particularly women are encouraged to apply.