

Research Fellow in Geophysics (InVEST Component A)  
Nanyang Technological University

Direct Link: <https://www.AcademicKeys.com/r?job=257187>

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Posted May 20, 2025, set to expire May 6, 2026

<b>Job Title</b>	Research Fellow in Geophysics (InVEST Component A)
<b>Department</b>	Earth Observatory of Singapore
<b>Institution</b>	Nanyang Technological University Singapore, , Singapore
<b>Date Posted</b>	May 20, 2025
<b>Application Deadline</b>	Open untill filled
<b>Position Start Date</b>	Available Immediately
<b>Job Categories</b>	Research Scientist/Associate
<b>Academic Field(s)</b>	Earth Sciences Geology - Geophysics
<b>Job Website</b>	<a href="https://ntu.wd3.myworkdayjobs.com/Careers/job/NTU-Main-Campus-Singapore/Research-Fellow--InVEST-Component-A-_R00019744">https://ntu.wd3.myworkdayjobs.com/Careers/job/NTU-Main-Campus-Singapore/Research-Fellow--InVEST-Component-A-_R00019744</a>
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<b>Job Description</b>	

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The Earth Observatory of Singapore (EOS) is a University Research Institute at Nanyang Technological University Singapore that conducts fundamental research on earthquakes, volcanic eruptions, tsunamis, and climate change in and around Southeast Asia, towards safer and more sustainable societies.

EOS maintains a regional network of geophysical observation stations in collaboration with neighboring countries in Southeast Asia, that are supported by the EOS Centre for Geohazard Observations, as well as a Remote Sensing Lab (EOS-RS). Computational resources are available through a dedicated cluster and collaboration with the High-Performance Computing Centre of NTU. In addition, EOS hosts state-of-the-art analytical facilities for petrological and geochemical analysis, and a Community Engagement office that co-creates learning opportunities for a range of audiences to promote a safer and more sustainable future.

The Earth Observatory of Singapore (EOS) at Nanyang Technological University seeks a Research Fellow (RF) to join the 'Integrating Volcano and Earthquake Science and Technology (InVEST) in Southeast Asia' project, a 5-year project that aims to provide a holistic understanding of regional tectonics, volcanoes, the linkages between the two, and their cascading hazards and impacts in Singapore and Southeast Asia.

The successful candidate will work under the supervision of Asst Prof Lujia FENG and focus on tectonic and earthquake research for the Southeast Asian Ring of Fire.

### **Key Responsibilities:**

- Remapping the Southeast Asian Ring of Fire in 3D
- Constructing a kinematically consistent plate motion model for the Southeast Asian Ring of Fire through block modeling or geodynamic approaches
- Building new software tools for regional 3D geological and tectonic modeling
- Publication of scientific results in peer-reviewed journals and at international conferences
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Potential for co-mentorship of PhD students within the team

- Engaging in collaborative discussions with InVEST team members and collaborators
- Contributing to InVEST meetings and reports

### **Job Requirements:**

- PhD degree in Earth science, Geophysics, Geodesy or a closely related field
- As position requires stakeholder engagement in English, candidate must have excellent written and oral communication skills in English.
- Proficiency in computational methods, with experience in modeling using Fortran, MATLAB, and/or Python
- Demonstrated research experience in earthquake-related deformation modeling
- Ability to work independently with a high level of accuracy and attention to detail
- Evidence of being able to work both independently and collaboratively, with a strong sense of team spirit
- Entry level candidates are welcome to apply

Interested applicants should submit a CV, a statement of interest, and contact details of 2 referees. Incomplete applications will not be considered. For more details, please view <http://www.earthobservatory.sg>.

EOS seeks a diverse and inclusive workforce and is committed to equality of opportunity. We welcome

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applications from all and recruit based on merit, regardless of age, race, gender, religion, marital status, family responsibilities, or disability.

We regret to inform you that only shortlisted candidates will be notified.

**Contact Information**

Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

**Contact**

Singapore