

地球構造研究室(ESLab)主要研究興趣在利用地震學方法解析與監測不同尺度地質構造形貌與物性的時空變化，探究如(盲)斷層帶活動、火山岩漿動力系統、造山帶構造演化與山崩滑動機制等議題。我們也持續改良與發展相關震波成像與監測的技術，切入不同地震構造與地質災害的關鍵問題，研究與深入了解觀測現象與背後驅動機制的關係。近期致力推動光纖感測技術的前沿應用。主要計畫方向有：

- (1) 解析活動斷層帶與慢滑移山崩滑動帶的構造與滑動機制
- (2) 發展近地表高解析構造成像與監測技術(如地熱探勘與地下水資源監控等)
- (3) 新興光纖地震學的前沿應用

我們徵求研究助理一至二名！歡迎對(廣義的)地球構造/地震構造與新興地震觀測技術有興趣的人加入我們，一起用地震學來探索與監測我們腳底下的世界！研究與解決各類構造活動與自然災害的關鍵問題！

研 究 室：地球構造研究室(黃信樺副研究員)

需求職稱：碩士級專任研究助理一名

- 需求說明：
1. 具地球科學背景，或具資工/土木背景對地球科學有興趣者
 2. 積極認真、負責任、樂於接受新事物
 3. 有基本英文溝通能力與程式撰寫能力(Shell, Fortran, Matlab, Python, etc.)
 4. 有汽車駕照與山路駕駛經驗者尤佳

工作內容：相關研究分析、演算法開發、即時資料傳輸與處理、野外測站架設與維護

起聘時間：2023年8月起(可議)

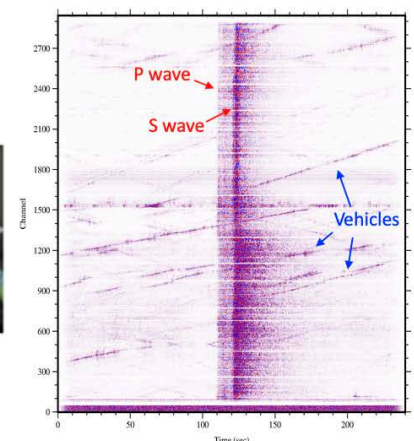
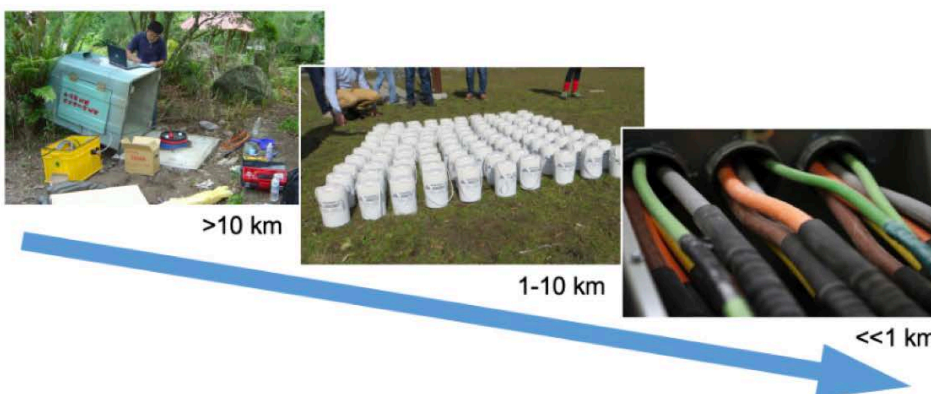
工作待遇：依原科技部之敘薪標準或更高

意者請聯絡黃信樺副研究員

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Earth structure laboratory (ESLab) is interested in using seismological methods to imaging and monitoring the physical properties and 3-D geometry of multi-scale Earth structures in space and time, approaching topics such as seismogenic fault activity, volcanic plumbing system dynamics, orogenic architecture and evolution, and landslide failure mechanism. We keep improving/developing new imaging and monitoring techniques to tackle different critical questions in seismotectonics and geohazards. Through that, we develop deeper understanding of the phenomena observed and the driving mechanisms behind. Recently, we are also devoted to the state-of-the-art technique of fiber-optic sensing in new applications. The main recent research directions are:

- (1) Deciphering the structure and mechanism of deep-seated slow-moving landslides
- (2) Developing high-resolution near-surface seismic imaging and monitoring techniques (e.g. geothermal exploration, groundwater monitoring, etc.)
- (3) Cutting-edge applications of fiber-optic seismology

We are recruiting one to two research assistants now! Welcome whom are interested/passionate about Earth structure/Seismotectonics and new techs in seismic observations to join us. Let's use seismology to explore and monitor the world beneath our feet and resolve critical problems of tectonics and natural hazards!

Research lab: Earth Structure Laboratory (Hsin-Hua Huang, Associate Research Fellow)
Position title: One research assistant
Job requirements: 1. Education background on Geosciences/Computing science/Civil engineering
2. Responsible, Positive attitude, and Strong curiosity
3. Basic skills of English communication and programing (e.g. Shell, Fortran, Matlab, Python etc.) are required
4. With a driver license and driving experience in mountains is preferable
Job specifications: Research analysis, algorithm development, real-time data processing, seismic network deployment and maintenance
Earliest start date: 2023 August (negotiable)
Salary: In accordance with or higher than MOST's standard

If you are interested in joining us, please contact Dr. Hsin-Hua Huang
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