

Geophysical data acquisition and processing training program

地球物理數據測量與處理訓練計畫

Supervisor: Prof. Yih Jeng (鄭 懌), ESNTNU

Utilizing geophysical technology is essential for mapping the geologic structure inside the Earth. The program objective is to offer undergraduate students opportunities to work on real geophysical problems and applications. A variety of geophysical instruments including seismic, gravity, magnetic, very low frequency electromagnetic (VLF-EM), ground-penetrating radar (GPR), etc. are available in the Geophysical Laboratory, Earth Sciences Department, National Taiwan Normal University. The laboratory also maintains a data processing facility for teaching courses and conducting research, particularly in geophysical data analysis. The awarded interns will assist with on-going studies of shallow earth imaging using VLF-EM, GPR, seismic, and gravity methods. Laboratory work, field investigations (domestic and international), and theoretical computations are all possible projects. The internship is open to currently enrolled full-time upper-level earth sciences undergraduates at accredited colleges and universities, but geophysics or similar majors are preferred. One of the most important requirements is a willingness to be taught and a desire to learn geophysics. Students are presumed to have a healthy and strong work ethic, being cooperative, dependable, courteous, and honest. The successful interns are expected to have a good command of spoken English to communicate with foreign geophysicists and to present the final report.