

Seismic Network Field Technical Officer

DUTIES AND RESPONSIBILITIES

Plan and/or participate in seismic field campaigns that involve the installation/maintenance of new/existing broadband seismic field stations. This includes the installation of seismic sensors, seismic digitizers and power and communications systems. Design and commissioning of seismic bunkers will form part of the work.

Testing and configuration of broadband seismometers and digitizers.

Participating in the development of tender documents for the purchase of such systems.

Installing and maintaining 12V DC power systems in remote areas, eg. solar and wind generators.

Contribute to documentation of procedures, system documentation and reports.

Work to automate network health monitoring tools to ensure rapid response to network outages.

Seismic data quality control [PQLX, obspy].

Maintenance of seismic databases & working with real-time data streams.

PERSONAL QUALIFICATIONS & EXPERIENCE

Essential:

M.Sc. or at least equivalent in Engineering, Physics, Applied Maths or Earth Sciences

At least 1 year experience in installing broadband seismometers in a variety of environments.

Experience in seismic network operation and data analysis in Linux.

Willing to travel for extended field work.

Full drivers licence

Desirable:

Experience in installation of broadband seismometers and digitizers with real-time digital telemetry

connection to a data centre.

Knowledge of computer network communication & seedlink protocol.

Willingness to assist with communicating innovations in network performance/data analysis methods through publications, reports and outreach activities.