Earthquake engineering is a broad field. It includes aspects of geology, risk analysis and geotechnical analysis, modelling and design.

**Expertise**

**Our specialist services include:**

- Site specific seismic hazard assessment
- Local site effects
- Design ground motions
- Design spectra and response spectra
- Liquefaction
- Seismic slope stability
- Seismic design of retaining walls
- Seismic design of dams
- Soil improvement to mitigate seismic hazards
- Seismic risk analysis
- Foundation performance.

**Experience**

**Our reputation for quality work includes:**

- Identification of active faults
- Assessment of the level of ground shaking
- Assessment of ground rupture hazard
- Site investigation and classification of site subsoil category
- Evaluation of amplification of ground movements due to specific site conditions
- Assessment of potential for liquefaction of ground and consequences
- Evaluation of landslip risk and displacement under earthquakes
- Design of liquefaction mitigation measures.

We have provided earthquake engineering services for:

- Water supply - dam design and evaluation, canals
- Roading - embankment stability, cut slopes, excavations, bridge abutments
- Hospitals/Lifeline structures - design criteria, liquefaction assessments, local site effects
- Mining - tailings dams, waste stacks, open pits
- Hydropower - fault studies, seismic hazard
- Residential and commercial developments.

**Exceptional thinking together**

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