



Nick Direen
Geophysicist

Profession: Structural Geologist / Geophysicist

Education: BSc (Hons) 1995 University of Tasmania
PhD 1999 CODES University of Tasmania
Grad Cert App Fin & Inv, 2003 Sec Inst Aust

**Registrations/
Affiliations:** Vice President, Geological Society of Australia
(SA Division)
Secretary, Specialist Group in Tectonics &
Structural Geology (SGTSG)
Active member, Australian Society of
Exploration Geophysicists
Fellow, Geological Society (London)
Member, American Geophysical Union

Specialisation: Potential fields, structural geology, regional tectonics

Expertise:

- Potential Field Geophysics
Field surveys, quality control, database management, signal enhancement, modelling, inversion, and imaging
- Geological Interpretation of Remotely Sensed Data
Interpretation of structure & solid geology from aeromagnetics, gravity, Landsat, air-photos, DEM, seismic, EM & MT; Integration & calibration of potential field interpretations with seismic data, electrical data, drillcores and field mapping
- Structural Geology and Tectonics
Detailed structural analysis at regional to outcrop scale; Geodynamics; Plate tectonic analysis & reconstruction; Structural controls on fluid flow.
- Petroleum Exploration
Basin analysis (structure, events, tectonic evolution, dynamics); Basement controls on basin evolution; Petroleum systems analysis
- Mineral Exploration
Exploration targeting under cover; Geological mapping in remote areas; Structural controls, evolution and timing of mineralization (Porphyry Cu-Au; IOCG; Orogenic Au; U; Ni; VHMS; other BMS); Mineral systems analysis
- Project Generation & Management
Generation and embedded management of multidisciplinary, team-based research projects with multiple partners
- Training
Preparation and presentation of short courses, software workshops and training seminars

Knowledge Areas: Australia; China; Antarctica; rifted margins worldwide

Employment Record:

2006 – Present FrOG Tech, Structural Geologist / Geophysicist, Adelaide Australia
2002-2006 University of Adelaide, Lecturer in Exploration Geophysics & Tectonics, Adelaide Australia
1999-2002 Geoscience Australia, Research Scientist, Canberra Australia
1996-1999 Centre for Ore Deposit Research, Senior Tutor, University of Tasmania, Hobart Australia
1994-1995 BHP Petroleum, Cadet Petroleum Geologist, Melbourne Australia

Languages: English, French