



**Zhiqun Shi**  
Senior Consultant

**Profession:** Consulting and Research Geophysicist

**Education:** BSc, Changchun University of Geology, China  
PhD, University of Adelaide

**Registrations/  
Affiliations:** Active member of Society of Exploration Geophysicists  
Active member of Australian Society of Exploration Geophysicists

**Specialisation:** Processing, imaging, depth estimation and modeling of magnetic & gravity data; method and software development

**Expertise:**

- Processing and enhancement of magnetic and gravity data
- Imaging of geophysical and satellite data
- Modelling of gravity and magnetic data
- Magnetic depth estimation for basement mapping and structural interpretation
- Depth to basement and crustal structure interpretation of regional magnetic and gravity data
- Software development
- Development of new techniques for analysis and interpretation of magnetic data
- Spectral analysis of grid and profile geophysical data

***Zhiqun Shi:** Throughout her career, she has gained immense experience in the acquisition, processing, imaging and interpretation of potential field data, as well as in other geophysical satellite data. She has been involved in all aspects of potential field data management, including survey quality control, signal enhancement, spectral analysis, modelling, inversion, imaging and depth to basement mapping. In addition Zhiqun has participated in software development and development of new techniques in data analysis, enhancement and interpretation. At the Beijing Computer Centre of the Chinese Ministry of Geology and Mineral Resources Zhiqun was one of a group that won two second prizes in the Science and Technology Ministry for developments in frequency domain potential field interpretation and for interpretation and processing of aeromagnetic data over the whole of Pan-Northern China. Following these prizes Zhiqun was awarded a four year scholarship from the South Australian Department of Mines and Energy to develop airborne magnetic interpretation methodology and software.*

*Zhiqun has published many papers, mostly on magnetic source depth estimation and is an author of the paper "Aeromagnetic Techniques and Interpretation Applied to Fold Belt Exploration – Bara Areromagnetic Survey, Papua New Guinea" published in the Proceedings of the Third PNG Petroleum Convention. Zhiqun's developments of the AutoMag™ depth estimation technique are used widely in the petroleum and mineral exploration industries.*

**Employment Record:**

**2005 – Present** **FrOG Tech**, Senior Geophysicist, Canberra Australia

**1998-2005** **Encom Technology**, Senior Consultant, Sydney Australia

**1995-1998** **MIM Exploration**, Senior Research Geophysicist

**1993-1995** **Adelaide University**, Post-Doctoral Fellowship with by WMC Corporation & South Australian Department of Mines

**1993-1989** **Adelaide University**, PhD student

**1988-1989** **Adelaide University**, Visiting scholar

**1976-1988** **Beijing Computer Centre of Ministry of Geology and Min Resources**, Geophysicist China

**Languages:** English, Mandarin (Used to translate scientific articles from Chinese)