

# Regis Neroni

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## PROFILE

Hands-on and enthusiastic practitioner of contemporary geophysics with sound geology and geochemistry backbone and over 17 years' international experience in the mineral exploration industry following tertiary study of geology, geochemistry, and geophysics to French *Maîtrise* (eq. BSc (Hons)) degree level.

All-round geoscientist profile developed through complementing positions namely field geophysicist, consulting geophysicist and company geophysicist for major mining houses, with fieldwork spanning across Australia, New Zealand, Canada, the Philippines, Thailand, Laos, Papua New Guinea, Eritrea, Argentina, and Ecuador.

Emerging Director passionate about innovation, the sustainable and responsible exploration and extraction of raw materials, the promotion of applied geoscience education and the support and development of communities in need.

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## CAREER SNAPSHOT

11/2021 – Present	Managing Director - Consulting Geophysicist	NewGen Geo Pty Ltd
03/2014 – 11/2021	Lead Geophysicist   Senior Geophysicist	Fortescue Metals Group Ltd
07/2012 – 03/2014	Project Geoscientist	Rio Tinto Exploration
09/2009 – 07/2012	Senior Geophysicist   Geophysicist	Southern Geoscience Consultants
09/2006 – 04/2009	Geophysical Crew Leader   Field Geophysicist	Zonge Engineering and Research Organisation

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## CORE COMPETENCIES & KEY ACHIEVEMENTS

- **Strategic planning.** Developed a global data management strategy and technical standards to build one of the largest geophysics departments in the mining industry.
- **Creative thinking.** Formally recognised by peers for the development and application of new technology. Supervision of university research projects. Managed technology and innovation budgets of up to \$2.5M.
- **Leadership skills.** Held senior executive positions leading and providing mentorship to culturally diverse teams with up to 10 direct reports located across three countries. Led field exploration teams of up to 100 people. Volunteer strike team leader for humanitarian organisation Disaster Relief Australia.
- **Communication.** Superior written and oral communication and effective data presentation. Experience presenting to the board of an ASX20 company. Recipient of best oral presentation awards at international conferences.
- **Problem-solving skills.** Led numerous technical projects targeted at specific gaps in the mining value chain, e.g., award-winning work on non-invasive monitoring of embankment integrity.
- **Project management.** Delivered over 80 incident-free and under-budget field acquisition campaigns in remote and challenging environments. Simultaneously responsible for up to eight large projects across four countries.
- **Safety leadership.** Developed an industry-leading safety workflow for an international mining company powerhouse which drove the significant incident rate down to zero after implementation.
- **Broad knowledge of the mining industry.** Global experience in exploration and production of various commodities including iron ore, copper, gold, bauxite, nickel, uranium, lead, zinc, coal, lithium, cobalt, diamonds and mineral sands.

## EMPLOYMENT HISTORY

### **NewGen Geo Pty Ltd** – Perth, WA

*Proprietary consultancy specialising in the application of contemporary geophysics to the mineral exploration industry.*

#### **Managing Director – Consulting Geophysicist**

**11/2021 – Present**

- Provision of expert technical and strategic advice to client mineral exploration companies globally.
- Discovery of the Adina spodumene-bearing pegmatite deposit in Canada with Winsome Resources.
- Founder a of company which generated a profit within the first three months of operation.

### **Fortescue Ltd** – Perth, WA

*Australian mining company (US\$57.7B market cap as of 24/01/2024) which has discovered and developed major iron ore deposits in the Pilbara region of Western Australia to become the fourth largest iron ore producer in the world.*

#### **Lead Geophysicist**

**08/2017 – 11/2021**

#### **Senior Geophysicist**

**03/2014 – 07/2017**

- Exploration strategy and geophysical support to global iron and non-iron exploration teams.
- Coordinated near-mine hydrological, environmental, and geotechnical projects.
- New opportunities assessment and due diligence.
- Key protagonist of the grassroot Cu and Li exploration efforts in Australia and South America.
- Custodian of the Australian Exploration Technology and Innovation budget and assets.
- Established and grew a highly regarded international geophysics department.

### **Rio Tinto Exploration** – Perth, WA

*Australian-British multinational (US\$116.86B market cap as of 24/01/2024) and one of the world's largest metals and mining corporations with assets and projects in 35 countries and across 6 continents.*

#### **Project Geoscientist**

**07/2012 – 03/2014**

- Geophysical support to various commodity groups within the Australasia region.
- Unexploded ordnance detection R&D project over an advanced bauxite project in Laos.

### **Southern Geoscience Consultants** – Perth, WA

*Privately-owned group of highly experienced geophysicists based in Perth, Western Australia, who provide independent, specialised consulting services to the mineral and petroleum exploration industries.*

#### **Senior Geophysicist - Team Leader**

**10/2011 – 07/2012**

#### **Geophysicist**

**09/2009 – 09/2011**

- Geophysical data quality assurance and control, processing, imaging, modelling and interpretation.
- Planning, coordination and field supervision of geophysical data acquisition campaigns.
- Discovery of the first gold porphyry system in Eritrea with Chalice Gold Mines Ltd.
- Managed the Australian geophysical support for Barrick during an eighteen-month-long secondment.

### **Zonge Engineering and Research Organisation** – Adelaide, SA

*Privately-owned geophysical specialist in the development and application of broadband electrical and electromagnetic methods which provides field surveys, data processing and modelling, equipment sales, staff hire and geophysical consulting.*

#### **Geophysical Crew Leader**

**02/2008 – 04/2009**

#### **Field Geophysicist**

**09/2006 – 01/2008**

- Planning and directing ground geophysical electrical surveys.
- Designed the prototype for industry-leading proprietary multi-core cabling system.
- Successfully delivered the company's first ever 3D Induced Polarisation survey.

## EDUCATION & RESEARCH

### French *Maîtrise* (eq. BSc (Hons)) Degree in Geosciences, Environment and Risks

06/2006

Louis Pasteur University, Strasbourg, France.

This four-year degree programme, taught in the School and Observatory of Earth Science, Strasbourg, France was aimed at developing a broad knowledge of contemporary geophysics, providing a range of geological, geochemical, mathematical, and computing skills with the opportunity to specialise in applied geophysics.

Thesis: "*Seismic multiplets relative relocation: Application to the earthquake of Vallorcine (08/09/2005), Western Alps, France*".

### University of Adelaide, South Australia

07/2006 – 09/2006

Supervisor: Dr Graham Heinson.

Research project on characterisation of borehole fractures using a combination of downhole electrical techniques in collaboration with the South Australian Department for Water, Land and Biodiversity Conservation (DWLBC).

### Geosciences Azur, Sophia Antipolis, France

07/2005 – 08/2005

Supervisors: Prof. Stephane Gaffet and Prof. Frederic Cappa.

Research project in seismology consisting of processing and interpretation of passive seismic data from a large moving rock slope, the *La Clapière* landslide, in the Southern Alps, France.

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## HONOURS & AWARDS

**Early Achievement Award (ASEG).** For significant contribution to the profession by a member under 36 years of age. Presented at AEGC 2019, 2nd Australasian Exploration Geoscience Conference, Perth, Western Australia, 2-5 September 2019.

**Best Oral Paper (Near Surface and Groundwater).** AEGC 2018, 1<sup>st</sup> Australasian Exploration Geoscience Conference, Sydney, New South Wales, 18-21 February 2018. "[Application of the passive seismic Horizontal-to-Vertical Spectral Ratio technique for embankment integrity monitoring](#)".

**Best Oral Paper (Minerals).** ASEG-PESA-AIG 2016, 25<sup>th</sup> International Geophysical Conference and Exhibition, Adelaide, South Australia, 21-24 August 2016. "[Application of the Airborne Electromagnetic Method for Banded Iron-Formation mapping in the Hamersley Province, Western Australia](#)".

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## PUBLICATIONS & PRESENTATIONS

A list of publications and presentations can be found here: [www.newgengeo.com.au/download/](http://www.newgengeo.com.au/download/).

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## PROFESSIONAL AFFILIATIONS

Australian Institute of Company Directors (AICD) – Member	12/2021
RPGeo Mineral Exploration & Geophysics	04/2020
Australian Institute of Geoscientists (AIG)	01/2010
Australian Society of Exploration Geophysicists (ASEG)	01/2007
European Association of Geoscientists and Engineers (EAGE)	01/2006

## LANGUAGES

French (native)
English (fluent)
Spanish (good working proficiency)
German (elementary)