

## **Geophysicist - Whiteford Geoservices Ltd**

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I am a Project Engineer with over six years experience working in specialist geophysical and geotechnical ground investigations within the United Kingdom and Ireland, along with providing geotechnical and geophysical engineering services to open-pit and underground mining operations in Western Australia. Involved primarily in the fields of wind energy development and major infrastructure projects, I have conducted numerous high resolution geological and geophysical surveys for the engineering sector.

Working at management level within Whiteford Geoservices Ltd, I assume responsibility over both the technical and contractual areas of the projects which I co-ordinate.

### **Selected Project History**

- 2009 – Youghal Main Drainage Scheme – Ground Investigation - **£211k**
- 2010 – N17 / N18 Tuam Bypass Ground Investigation Contract - **£260k**
- 2010 – Slievekirk Wind Farm Ground Investigation Contract - **£110k**
- 2011 – Site Investigation for Meenadreen, Straness and Croaghnameal Wind Farms - **£270k**
- 2011 – Glenconway to Slievekirk Wind Farm Cable Interconnector Geophysical Investigation - **£40k**
- 2012 – O’Callaghan’s Tungsten Deposit Underground Mine, Western Australia
- 2012 – Kipeto Wind Farm (102MW) Rift Valley Province, Kenya
- 2013 – Arklow Sewerage Scheme Site Investigations - **£170k**
- 2013 – Gweedore Sewerage Scheme Phase 1 Geophysical Investigation - **£80k**
- 2014 – Iarnrod Eireann (Irish Rail) Bridge Foundation Investigations - **£50k**
- 2014 – Brockaghboy & Upper Ballyrogan Wind Farms - **£120k**
- 2015 – N60 Balla to Claremorris Realignment (Heathlawn) - **£95k**

### **Academic and Professional Qualifications**

- BSc (Hons) Chemistry and Forensic Science
- A-Levels (Mathematics, Physics, Computing)
- CSR Card
- Senior First Aid

### **Professional Experience**

#### **Project Engineer – Newcrest Mining Ltd      2012**

Employed at Telfer Gold Mine, Western Australia to provide geophysical and geotechnical engineering services to open-pit and underground mining operations.

- Geotechnical data collection and quality control.
- Rock mass classification and monitoring.
- Geotechnical risk assessment.

- Ground support design.
- Slope stability analysis.
- Management of exploratory drilling operations.

**Project Geophysicist – Whiteford Geoservices Ltd**

2008 – 2011 & 2012 – *Present*

- Provide planning and design for all geophysical projects undertaken.
- Geophysical investigations involving Electrical Resistivity Imaging, Seismic Refraction / Reflection / MASW, Ground Conductivity, Ground Radar surveys, Magnetic Gradiometry.
- Manage geophysical investigations; supervise data acquisition, processing and interpretation.
- Responsible for liaison with clients, consultants and land owners.
- Ensure adherence to all contractual issues, including Health & Safety.
- Principle author of technical reports.
- Provide professional assistance in a consultancy manner.
- Pricing and tendering for contracts.

**Technical Experience**

**Geotechnical**

- Detailed logging of exploratory boreholes (Eurocode 7; BS EN 5930 : 2010)
- Ground stability monitoring and assessment
- Assessment of soil / rock properties and quality (Eurocode 7; BS EN 1377 & BS EN 5930 : 2010)
- In-situ testing to determine ground conditions and engineering parameters.
- Structural studies and assessments (roads, retaining walls, turbine bases etc)
- Environmental and Contaminated Land surveys (BS EN 10175 : 2009)
- Topographic surveying.

**Geophysical**

- Seismic Refraction surveys (experience using Geometrics 24 Channel Strataview Seismograph and OYO DAS-1 48 Channel Seismograph).
- Resistivity surveying (experience using Campus GeoPulse 64 Channel Resistivity 2D Imaging System, ABEM Terraloc Plus Lund 2D Imaging System and Megger Det 5 Ground Resistivity Meter).
- Electro-Magnetic surveying (operations using Geonics EM31 Ground Conductivity Meter and Geonics Protem EM57 Time Domain EM System).
- Ground Radar surveys (operations using Mala Ramac X3M Ground Radar System and Pulse Ekko 1000 Ground Radar).