



Electronics/Instrumentation Engineer

UKRI – NERC – BGS

Keyworth, Nottingham

£24,777 to £26,932 per annum (depending on qualifications and experience)

Full-Time – 37 hours a week (a range of flexible working options may be available)

Fixed Term Appointment (3 years)

About us

The British Geological Survey (BGS) is an applied geoscience research centre that is housed in UK Research and Innovation (UKRI) and affiliated to the Natural Environment Research Council (NERC). It is a world leading geological survey that provides a core science mission to inform government of science related to the subsurface and its interfaces and also undertakes applied research for solutions to earth and environmental processes, both in the UK and globally. It is funded directly by UKRI as well as through research grants and via private sector contracts.

BGS has an annual budget of approximately £60 million and employs 650 people. It has two main sites, a head office in Keyworth near Nottingham and the Lyell Centre, which is a joint collaboration with Heriot Watt University in Edinburgh. BGS works with more than 150 private sector organisations as well as having close links with 40 universities and sponsors approximately 100 PhD students each year.

BGS is seeking to appoint a newly (graduating 2019) or recently graduated, highly motivated individual to assume the role of Electronics/Instrumentation Engineer based at our headquarters in Keyworth in Nottingham.

About the role

We are looking for an enthusiastic, new/recent graduate in electronics/instrumentation (or a related subject) who is looking to establish their career within a world-leading geological survey.

You will have the skills, knowledge and enthusiasm to work in a leading research team focussed on deploying geophysical technologies both nationally and internationally. Your work will include:

- Undertaking Research & Development in the field of electronic engineering in support of Geophysical Tomography team projects.
- A strong fieldwork (research sites) and laboratory component – particularly in support of the development, operation and maintenance of remotely logged geophysical instrumentation.
- Contributing to the development and maintenance of geophysical field observatories in the UK, Europe and internationally (recent projects include: Canada, India and Zambia).



- Undertaking laboratory-based technical developments to support the Geophysical Tomography team's research programme.

You will also be expected to:

- Contribute to business development through supporting senior colleagues in developing research funding applications and the generation of new commercial projects.
- Contribute to the team's profile through supporting the communication of research in journals, and presentations at meetings and conferences.
- Undertake professional development activities, such as CPD, training courses and attending exhibitions/conferences.
- Provide engineering support for activities across the Geophysical Tomography team's programme of work.

You will join an established, dynamic team of engineers and scientists who work with UK and overseas governments, external organisations, commercial clients and Higher Education Institutes to deliver leading-edge instrumentation for non-invasive geoelectrical imaging of the shallow subsurface.

This technology is being developed for monitoring built infrastructure (e.g. dams and reservoirs), natural hazards (e.g. landslides), and environmental management (e.g. nuclear waste management, contaminated land remediation and the protection of groundwater and soils).

About you

With a recent degree in electronics or a related subject (***for applicants graduating in 2019, please provide evidence of your predicted degree class***), you will be a team player with an enthusiasm to work flexibly in a range of environments, including laboratories and research sites – this will involve both national and international travel. As an electronics engineer working in a research environment, you will be self-starting and practical, with a very keen attention to detail.

Please also refer to the specific essential and desirable skills criteria for this post.

What we offer

A generous benefits package is also offered, including a very competitive pension scheme, 30 days annual leave plus bank holidays, free parking and access to flexi-time. For a salary at the top end of the advertised range, you will also need to meet the desirable criteria detailed on the TopCareer.jobs website.

We also offer the 'Bike to Work' scheme, free parking, health and wellbeing support, social clubs and on-site sports facilities.

Please note that any internal BGS staff applying for this post would, if successful, be appointed to new UKRI Terms and Conditions and pay.



How to Apply

Applicants are required to include a cover letter outlining their suitability for this role in addition to their CV. We would stress the importance of this paperwork in our selection process. **A well thought through application addressing the advertised essential and desirable criteria for the post will be considered far more favourably than a generic covering letter and CV.**

Applications are being handled by UK Shared Business Services, to apply please visit our job board at http://www.topcareer.jobs/Vacancy/irc248780_9270.aspx

Applicants who are unable to apply online should contact us by telephone on +44 (0)1793 867000.

Closing date for receipt of applications is Monday 22 April 2019.

BGS provides a range of flexible working options including flexible working patterns, compressed hours and home working so if you have a need for flexibility, please raise this in the recruitment process when your needs, balanced with the requirements of the role, will be fully considered.

We are committed to promoting equality and diversity across our organisation as well as across all areas of our science community. As such, we aim to have a workforce with employees from all backgrounds with people who are passionate about earth science and who share our commitment to work for the good of the environment and the benefit of society.

We will actively seek to avoid discrimination on the grounds of age, being or becoming a transsexual person, being married or in a civil partnership, being pregnant or on maternity leave, disability, race (including colour, nationality, ethnic or national origin), sex or sexual orientation.

The British Geological Survey is an Investors in People organisation and has achieved Bronze status for Athena SWAN – a scheme that recognises an organisation's commitment and progress in developing a diverse and inclusive workforce.





Specific Skills Criteria

	<i>Essential</i>	<i>Desirable</i>
QUALIFICATIONS	<ul style="list-style-type: none"> • Undergraduate degree in electronics/instrumentation or a related subject (<i>for applicants graduating in 2019, please provide evidence of your predicted degree class</i>) • A clean UK driving licence • Passport holder 	<ul style="list-style-type: none"> • Chartered status
EXPERIENCE	<ul style="list-style-type: none"> • Measurement instrumentation • Electronic design • Laboratory electronics • Site based instrumentation • Fault finding • Planning and coordinating projects, including equipment specification 	<ul style="list-style-type: none"> • Experience of working in a scientific environment • Instrument development • Management/supervisory experience • Project management experience • Experience in budget management • Experience in managing customised delivery • Liaising with external partners
KNOWLEDGE	<ul style="list-style-type: none"> • Knowledge of electronic engineering design and the use of associated electronic design IT packages • Code writing including Python • Data management and visualisation • Knowledge of electrical safety and safe operation at the bench, in the laboratory and in the field 	<ul style="list-style-type: none"> • Knowledge of Firmware development • Use of Arduino platform • Use of Raspberry Pi platform • Experience of Logistics • Familiar with the use of graphical software packages such as Publisher and Corel Draw
SKILLS AND ABILITIES	<ul style="list-style-type: none"> • Skills, knowledge and ability to solve practical electronic and computational based problems • Ability to measure, analyse and interpret datasets acquired from bench-top testing • Effective written and verbal communication skills • Good attention to detail 	<ul style="list-style-type: none"> • Ability to present your work clearly to non-specialists • Good presentation skills • Workshop/laboratory management experience



	<ul style="list-style-type: none"> • Ability to prioritise work and meet tight deadlines • Ability to work within a variety of teams, demonstrating the ability to participate effectively as a team member 	
PERSONAL QUALITIES	<ul style="list-style-type: none"> • Self-motivated with an ability to work unsupervised • Enthusiasm for site-based engineering activities, with an ability to travel both within the UK and internationally • Aptitude for laboratory measurements, apparatus and experimentation • Approachable with an alignment to BGS Core Values 	
MOTIVATION	<ul style="list-style-type: none"> • Displays an enthusiasm for their engineering role and a desire to develop this further through their own Continuing Professional Development • Demonstrates curiosity and a drive to resolve engineering and scientific problems 	<ul style="list-style-type: none"> • Demonstrates an interest in the work of BGS, NERC and UKRI

