Senior Reservoir Modeller/Geophysical Interpreter
UKRI – NERC – BGS
Keyworth, Nottingham
£37,789 to £41,988 per annum (depending on qualifications and experience)
Full-Time – 37 hours a week (a range of flexible working options may be available)
Permanent Appointment

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.

We have an opportunity for a talented and motivated Senior Reservoir Modeller/Geophysical Interpreter to join the BGS Decarbonisation Challenge Team based at our headquarters in Keyworth in Nottingham.

About the role

BGS has established a reputation of international research excellence in Carbon Capture and Storage (CCS). Working within the CCS Research Team you will be expected to undertake research in the modelling and monitoring of subsurface processes linked to CO_2 storage.

We are seeking a talented individual with experience in multiphase flow modelling and an understanding of fluid processes in porous rocks. Much of the research is undertaken in collaboration with leading university departments, industrial partners and overseas research institutes.

The successful candidate will be expected to lead projects and develop new proposals for grant funding. The appointee may also be required to make contributions to a range of other interdisciplinary projects within the Decarbonisation Challenge. The work will be mostly UK based but there may also be opportunities to work overseas for short periods of time.

About you

You should be educated to 2:1 or above in a relevant degree and have either an MSc and three years' experience or a PhD in geoscience or geophysics with a focus on the deep sub-surface.

In addition, you should have the following knowledge/skills/experience:

- Demonstrable background in multiphase reservoir flow simulation.

- Demonstrable experience in the interpretation or application of geophysical data sets.

- Capability in the use of complex data sets to understand subsurface processes related to fluid migration.

- Knowledge and experience in algorithm development.

- Familiarity with C++ and/or Fortran is desirable.

The successful candidate would have excellent communication skills, in order to deliver presentations at international meetings, and a track record of publications in international journals.

Please 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 <u>internal BGS staff</u> 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. 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/irc248345_9181.aspx

Gateway to the Earth

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

Closing date for receipt of applications is 22 March 2019. Interviews will take place during week commencing 29 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 <u>Investors in People</u> organisation and has achieved <u>Bronze status for Athena SWAN</u> – a scheme that recognises an organisation's commitment and progress in developing a diverse and inclusive workforce.

Specific Skills Criteria		
	Essential	*Desirable*
QUALIFICATIONS	• 2:1 or above Degree in a relevant science discipline • An MSc and three years' experience <u>or</u> a PhD in geoscience or geophysics with a focus on the deep sub-surface	• Full driving licence

EXPERIENCE	• Relevant post-graduate experience of at least 3-5 years working in a project driven research environment • Demonstrable background in multiphase reservoir flow simulation • Demonstrable experience in the interpretation or application of geophysical datasets • Capability in the use of complex datasets to understand subsurface processes	• Experience of and familiarity with aspects of Carbon Capture and Storage (CCS) and/or Geothermal Energy and/or energy storage areas of research • Publications in peer reviewed literature
KNOWLEDGE	• Expert knowledge and understanding of fluid processes in the deep sub-surface • Knowledge of geophysical interpretation techniques	• Knowledge of high performance computing in a geoscience environment • Knowledge and experience in algorithm development
SKILLS AND ABILITIES	• Must be able to lead projects and work efficiently and to tight project deadlines • Must possess excellent communication skills, both written and oral • Ability to present their science clearly to non-scientists	• Experience of working with external research partners • Capability to program in C++ and Fortran
PERSONAL QUALITIES	• Willing to take on responsibility • Ability to travel off-site and overseas when required	• Multi-disciplinary team working
MOTIVATION	• Demonstrates an interest in the work of BGS, NERC and UKRI • Displays an enthusiasm for their science and a desire to develop this further • An understanding of the drivers for decarbonisation in the UK and internationally	