Geological Modelling Statistician
UKRI – NERC – BGS
Keyworth, Nottingham
£24,435 to £32,997 per annum (depending on qualifications and experience)
Full-Time – 37 hours a week (a range of flexible working options are 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 highly motivated and experienced modeller to assume the role of Geological Modelling Statistician at our headquarters in Keyworth in Nottingham.

About the role
With proven experience of and a passion for geological modelling, your work will include:

- Development of new BGS 3D geological modelling and uncertainty quantification capability.
- Statistical modelling of 3D geology and associated uncertainty.
- Supporting the development of the BGS National Geological Model and modelling for the UK Geo-Energy Observatories (UK GEOS) project.

You will also be expected to:
- Make statistical contributions to other projects in other areas of BGS.
- Carry out expert elicitation.

You will develop and parameterise 3D geostatistical models, including geostatistical geocellular models using a variety of datasets. A key element of the role will involve the assessment and quantification of uncertainty in these models.

You will work effectively with teams of geoscientists and other geological modellers and there will be the potential to contribute to developments in the BGS National Geological Model and the UK Geo-Energy Observatories (UK GEOS) project.

You will be able to: interact with users of models; explain key aspects of geological modelling to non-specialists and; advise users on how models should be interpreted. The work will be largely UK based, but there may be opportunities to work on short duration overseas projects.

Gateway to the Earth

About you

You must have experience of using modelling software and in the application of statistical methods, preferably in a geological context. You will have a good understanding of the statistical theory that underpins geological models.

You should have a postgraduate qualification with a substantial statistical component and some environmental science experience. You will also have excellent communication skills, both oral and written. The role will involve multidisciplinary team working and therefore you must be able to work effectively with other scientists in different disciplines.

What we offer

A generous benefits package is also offered, including a very competitive pension scheme, childcare salary sacrifice scheme, free on-site parking and 30 days annual leave plus bank holidays. Please note that any internal BGS staff applying for this post would, if successful, be appointed to new UKRI Terms and Conditions.

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://topcareer.jobs/Vacancy/irc246113_8484.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 **31 August 2018**.

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*.*

UKRI values diversity and welcomes applications from all sections of the community. People with disabilities and those from ethnic minorities are currently under-represented and their applications are particularly welcome. There is a guaranteed Interview scheme for suitable candidates with disabilities.

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

	Essential	Desirable
QUALIFICATIONS	• Postgraduate qualification in either applied statistics or geosciences with a strong statistical component (or equivalent experience in industry)	• Undergraduate or postgraduate degree in geosciences • Industry experience
EXPERIENCE	• Experience in the development of geological, earth science or environmental models and the use of appropriate modelling software • Experience of quantifying and communicating the uncertainty of model predictions • Experience of communicating the results of modelling exercises in written reports and/or academic journals	• Experience in the development of 3D geological models • Project management experience • Experience of providing statistical training
KNOWLEDGE	• Knowledge of the statistical methods associated with 3D geological models • Significant level of geological understanding	• Wider knowledge of statistical methods applied in the geosciences
SKILLS & ABILITIES	• Ability to communicate statistical and geological concepts to non-specialists • Ability to interact with users of geological models • Excellent presentation skills • Ability to work independently, in multidisciplinary teams and across multiple projects	
PERSONAL QUALITIES	• Approachable • Willingness to work across multiple BGS sites • Willingness to travel regularly within the UK and occasionally abroad	
MOTIVATION	• Demonstrates an interest in the work of BGS, UKRI and NERC • Demonstrates curiosity and a drive to resolve scientific problems	