



## **Hydrogeologist**

**UKRI – NERC – BGS**

**Wallingford, Oxfordshire**

**£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)**

**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 interface with the wider environment, 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 have just launched a new [Science Strategy](#), 'Gateway to the Earth' focused on solving problems around the three science challenges: decarbonisation and resource management; environmental change, adaptation and resilience, and multihazards and resilience.

We currently have an opportunity for a talented and highly motivated Hydrogeologist to join one of our groundwater research groups based at the BGS in Wallingford, Oxfordshire to work on projects addressing challenge of environmental change, adaption and resilience.

## **About the role**

BGS has an internationally leading reputation for research excellence in hydrogeology and groundwater science. A particular strength is in addressing issues that have the potential to affect the availability and quality of groundwater, and the wider environment. An example of this is our work on characterising and assessing the response of groundwater resources to environmental change. Understanding the challenges posed by changes to water resources requires a multi-disciplinary approach integrating groundwater data with information on the wider water cycle.

The post holder will take a leading role in supporting the delivery of a number of BGS-led, high profile, UKRI- and UK government, and EU-funded collaborative research projects related to the long-term sustainability of groundwater resources under environmental change both in the UK and internationally. Activities will vary from project-to-project, but will include processing, modelling and visualisation of large environmental datasets, field data and information capture including groundwater monitoring, and the preparation of reports and publications for the peer-reviewed literature.



Working closely with our partners, the work will contribute to maximising the use of BGS data and its improved management, reducing uncertainties in the management of groundwater resources under environmental change, and to improved responses to extreme events such as floods and droughts.

## About you

You should be educated to 2:1 or above in a relevant degree and have an MSc in hydrogeology, environmental studies or a related subject. In addition, you should have the following knowledge/skills/experience:

- The ability to manipulate and visualise large environmental datasets using packages such as R or Matlab, MS Access and ArcGIS.
- An interest in working with large datasets to extract information to support innovative research.
- Good knowledge of hydrogeological processes and their influence on groundwater resources and application to environmental problems.
- Knowledge of UK hydrogeology.
- Knowledge of environmental field monitoring and hydraulic property measurement.
- Excellent communication skills, both oral and written.
- You should be able to work effectively both independently and as part of a team.

The work will mostly be UK-based, but there may also be opportunities to work overseas for short periods. Consequently, a requirement of the role is the ability to undertake periods of fieldwork both in the UK and internationally. A valid driving licence and willingness to drive is required.

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 and access to flexi-time. We also offer the 'Bike to Work' scheme and health and wellbeing support.

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.

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. 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/irc250547\\_9815.aspx](http://www.topcareer.jobs/Vacancy/irc250547_9815.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 **13 September 2019**. Interviews will be held week commencing 30 September 2019 in Wallingford.

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		
	<i>Essential</i>	<i>Desirable</i>
<b>QUALIFICATIONS</b>	<ul style="list-style-type: none"> <li>Educated to 2:1 or above and have a MSc in Hydrogeology or a related subject</li> <li>Valid driving licence and willingness to drive</li> </ul>	<ul style="list-style-type: none"> <li>Applicants without a MSc in Hydrogeology should have undertaken some basic training in Hydrogeology</li> </ul>
<b>EXPERIENCE</b>	<ul style="list-style-type: none"> <li>Experience in working with and interpreting large environmental datasets</li> <li>Experience in designing and completing groundwater field investigations, including one or more of the following: groundwater sampling,</li> </ul>	<ul style="list-style-type: none"> <li>Experience in development and application of hydrogeological conceptual models</li> </ul>



	environmental monitoring, sample analysis and hydraulic property measurement (e.g. pump testing)	
<b>KNOWLEDGE</b>	<ul style="list-style-type: none"> <li>• Knowledge of hydrogeological processes and their influence on groundwater resources and application to environmental problems</li> <li>• Knowledge of UK hydrogeology</li> </ul>	<ul style="list-style-type: none"> <li>• Knowledge of groundwater resource modelling</li> </ul>
<b>SKILLS AND ABILITIES</b>	<ul style="list-style-type: none"> <li>• Demonstrable ability to manipulate and visualise large environmental datasets using software packages such as R and/or Matlab</li> <li>• Effective written communication skills</li> <li>• Excellent oral communication skills and an ability to present science clearly to scientists and non-scientists</li> <li>• Ability to adapt to and work effectively as part of a team as well as independently</li> <li>• Ability to prioritise work and manage time effectively</li> </ul>	<ul style="list-style-type: none"> <li>• Use of GIS software (such as ArcGIS)</li> <li>• Use of Microsoft Access</li> </ul>
<b>PERSONAL QUALITIES</b>	<ul style="list-style-type: none"> <li>• Willingness to undertake fieldwork both within the UK and occasionally abroad.</li> <li>• Demonstrates an alignment to BGS core values</li> </ul>	
<b>MOTIVATION</b>	<ul style="list-style-type: none"> <li>• Displays an enthusiasm for groundwater science and advancing knowledge in the subject</li> </ul>	





*Gateway to the Earth*