



Geoscience software developer (Java/Python)

UKRI — NERC — BGS

Keyworth, Nottingham (we would consider location at our Edinburgh office)

£30 782 to £33 459 per annum (depending on qualifications and experience, a specialist allowance of up to £5000 may be payable)

Full time: 37 hours a week (a range of flexible working options may be available)

Fixed-term appointment (two years)

About the role

We have an opportunity for a talented, motivated Java or Python developer with proven experience and a passion for coding to join our informatics science directorate.

We would like you to play a leading role in helping us build and maintain software solutions that acquire, manage and deliver geoscience data and information to a variety of stakeholders.

You'll gain exposure to a variety of modern technologies, development environments and information architectures, all within an agile culture that encourages learning and development and the following of industry best practice, from inception to delivery.

Several of our software development projects require collaboration with partners across the UK and beyond, creating information systems to support scientific research or developing geoscience software for commercial customers. You will be expected to participate in projects that require travel overseas (primarily Europe, Africa e.g. Nigeria, Asia or the Middle East), working in-country for periods of up to three weeks at a time.

About you

If you have many of the key skills below and you want to work for a forward-thinking environmental science institute at the forefront of global geoinformatics, then we would be very interested to hear from you:

- highly motivated and technically competent
- proven competency in Java programming (including Java 8+) **OR** Python, likely to have been gained during commercial experience
- up to date with current thinking in software development practices
- demonstrable IT/IS development skills across a range of other development languages such as HTML, JavaScript, SQL, PHP, C++, Lua
- show experience with version control software, such as Git
- undergraduate degree or equivalent work experience
- capable of travel and working overseas for periods of up to three weeks at a time (primarily Europe, Africa e.g. Nigeria, Asia and the Middle East) and excited by the prospect
- have a passion for coding and recognise the value of code quality and best practices within software engineering
- have experience of DevOps, continuous integration and delivery



You will be able to lead technical decision making, demonstrate keenness and forward thinking, and influence the advancement of BGS Informatics' technical capabilities and working practices.

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.

The 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. The 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.

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 flexitime. 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.

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/irc250693_9840.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 **29th September 2019**.

The 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>
QUALIFICATIONS	<ul style="list-style-type: none"> • Undergraduate degree or equivalent work experience 	
EXPERIENCE AND KNOWLEDGE	<ul style="list-style-type: none"> • Proven competency in Java programming (including Java 8) OR Python, likely to have been gained through commercial experience • Demonstrable IT/IS development skills across a range of other development languages such as HTML, JavaScript, SQL, PHP, C++, Lua • Experience with version control software, such as Git • Up-to-date with current thinking in software development practices • Knowledge and experience of all components of the software development life cycle 	<ul style="list-style-type: none"> • An understanding of object-oriented analysis and design • Experience working with spatial data • Experience and knowledge of DevOps technologies and methodologies • Knowledge of REST architecture and prior experience with API Design using API description tools such as Swagger
SKILLS AND ABILITIES	<ul style="list-style-type: none"> • Must demonstrate ability to take a forward look and influence the advancement of BGS Informatics’ technical capabilities and working practices • Must be able to communicate effectively (written and orally) with other staff, scientists and developers • Must demonstrate the ability to work well in a team • Ability to work independently in a technical environment • Effectively manage own time and workload in a flexible manner • You have a positive approach to change and are able to adapt effectively and encourage team members to do the same 	



PERSONAL QUALITIES	<ul style="list-style-type: none"> • Has a passion for coding, and recognises the value of code quality and best practices within software engineering • Capable of travel and working overseas for periods of up to two to three weeks at a time (primarily Europe, Africa e.g. Nigeria, Asia and the Middle East) and excited by the prospect 	<ul style="list-style-type: none"> • Background in geoscience
MOTIVATION	<ul style="list-style-type: none"> • Demonstrates an interest in the work of the BGS • Demonstrates curiosity, an interest in your own continuing professional development and a drive to resolve scientific problems through IT solutions 	

