Post-doctoral researcher: Developing Quantitative Stratigraphic methods for Calibration of the Proterozoic-Phanerozoic Transition. Fixed term until December 2020

Based at our Headquarters in Keyworth, Nottingham

The British Geological Survey is one of the world's leading and forward thinking geological science institutes with a focus on both public good science for government and geoscientific research to understand earth and environmental processes.

We are seeking a post-doctoral researcher to join a UK-China collaborative research project 'Perturbation of the Earth System at the Proterozoic-Phanerozoic transition and the resilience of the biosphere'. This project is inter-disciplinary, combining field geology, geochemistry, palaeontology and palaeobiology with earth-system modelling in order to improve understanding of the nature and drivers of the Proterozoic-Phanerozoic transition. This post is focussed on the development of the 4D chronostratigraphic framework through integrated chronostratigraphic methods including absolute geochronology with other stratigraphic data sets (litho-, chemo and cyclo-stratigraphy) in order to underpin the broader project. This will also involve the development of data systems and tools, in collaboration with an established team at the Nanjing Institute of Geology, Paleontology and Stratigraphy and there will be some scope to develop and apply these approaches to a wider range of collaborative projects. This is a NERC and NSF China funded project and part of the Biosphere Evolution, Transitions & Resilience (BETR) programme.

You should have a PhD in geoscience including experience of geochronology techniques, and stratigraphy together with at least 3 years research experience which can include PhD research. Expertise in radio-isotope geochronology (applications and limitations) and also in chronostratigraphy, challenges in basin wide and inter-regional correlation using a range of proxy data (geochron, chemistry, index fossils) are all required. In addition you should have knowledge of field geology, including logging of sedimentary successions, field mapping and regional stratigraphic analyses. We are also looking for an individual who has experience in using semi-quantitative methods for integrating chronostratigraphic methods and developing 'age-models'.

In addition to the technical abilities, you should have effective communication skills and have the ability to work within a variety of teams, demonstrating and ability to lead teams and to participate as a team member. The role will require you to travel off-site and abroad on a regular basis.

This is a fixed term role until December 2020. Depending on qualifications and experience, starting salary will be from £28,200 per annum to £30,600 per annum. Full time working hours are 37 per week excluding lunch breaks. A generous benefits package is also offered, including a company pension scheme, childcare voucher scheme, free on-site parking, 30 days annual leave plus 10.5 days public and privilege holidays.

This is advertised as a full time post but we will consider applications from those who require more flexible arrangements.

Applications are handled by the RCUK Shared Services Centre; to apply please visit our job board at http://www.topcareer.jobs/Vacancy/irc243530_7758.aspx and submit your up-to-date C.V. and covering letter, which clearly outlines why you are applying for this post and how you meet the criteria described in this advertisement. Applicants who would like to receive this advert in an alternative format (e.g. large print, Braille, audio or hard copy), or who are unable to apply online should contact us by telephone on 01793 867003, Please quote reference number IRC243530.

Closing date for receipt of application forms is 31 December 2017.

From April 2018, BGS, a component institute of the Natural Environment Research Council, will become part of UK Research and Innovation. UK Research and Innovation will bring together the seven UK Research Councils, Innovate UK and a new organisation, Research England. The vision for the new organisation is to be the best research and innovation organisation in the world. More information can be found online at http://www.ukri.org. From April 2018, you will be employed by UK Research and Innovation.

The Natural Environment Research Council is an equal opportunities employer 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. The British Geological Survey is an Investors in People organization and has achieved Bronze status for Athena Swan – a scheme that recognizes excellence in women's employment in science, technology, engineering, maths and medicine (STEMM) in UK higher education. There is a guaranteed Interview Scheme for suitable candidates with disabilities.

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