Job Title: IODP Research Associate
Grade: 7
Salary: £34,189 to £39,609 per annum
Department: Geography, Geology and the Environment
Hours/Contract: Full time, fixed term contract to 30 September 2020
Job Reference: 429

Role Purpose

The acquisition and analysis of petrophysical core and borehole measurement data for the International Ocean Discovery Program (IODP) and other drilling/coring research projects.

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<th>Principal Responsibilities</th>
<th>% Time</th>
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<td>• Management of the logging and petrophysical programmes on individual IODP expeditions, providing advice to the Expedition Science Party on logging, pre-expedition planning, shipboard acquisition and data distribution, post-expedition reporting and the scientific analysis and interpretation of logging and petrophysical data.</td>
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<td>• To spend, on average, up to 2 months at sea per year as an IODP shipboard participant on behalf of the ECORD Science Operator, to take primary responsibility for the QA/QC of logging and core physical properties data from individual drilling expeditions, to be responsible for the acquisition of new data and ensure delivery of services contracted to Borehole Research by these organisations, including at the onshore phase of typically 6 weeks based in Bremen.</td>
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<td>• To propose, initiate and carry out a plan of personal research based on IODP logging and petrophysics data and/or other expedition science data. Collaborate with colleagues to seek and secure research funding to supplement project funds.</td>
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<td>• To publish appropriate aspects of research arising from expedition results as the lead author in peer reviewed scientific literature and present results at national and international conferences.</td>
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<td>• To prepare reports, both internal and for other bodies within the IODP.</td>
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<td>• To represent the University of Leicester at international IODP meetings and at major international meetings throughout the year. To act as a liaison between the University of Leicester and its major international IODP partners in the US, Germany, France and Japan.</td>
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Internal and External Relationships

The University of Leicester, as the Lead Organisation for the European Petrophysics Consortium (EPC) operates in collaboration with EPC partners at the universities of RWTH Aachen and Montpellier. The post holder will be expected to work closely with the EPC Research Associates and personnel from the ECORD Science Operator (ESO -comprising the British Geological Survey, University of Bremen and EPC). EPC is part of a wider international logging consortium, comprising EPC, Lamont-Doherty Earth Observatory (LDEO, lead) and the University of Tokyo.

Planning and Organising

The post-holder will be required to effectively manage their time to deliver on the priorities of the post.

Qualifications, Knowledge and Experience

Essential

- A PhD degree in an earth science or related discipline*
- A background in geology/geophysics*
- Ability to take on scientific challenges outside their sphere of expertise, although an attempt is always made to match an individual’s scientific interests to the expeditions to which they are allocated, this is not always possible.
- The group mainly works on PC systems using industry-standard programmes including Techlog and WellCAD. The post-holder must become proficient in the use of these packages and others as required for projects.
- A sound science background to enable the individual to adapt rapidly to unforeseen and changing science requirements.

Desirable

- A research background/experience in at least one of the following areas:*  
  o Petrophysics
  o Marine Geology
  o Geophysics
- Working knowledge of downhole logging and or core physical properties measurements*
- Experience working in challenging environments and/or participation in ocean research projects.

Skills, Abilities and Competencies

Essential

- An excellent command of computers, and common and specialist software packages*  
- Excellent written* and oral communication skills
**Job Summary**

- Enthusiasm and willingness to participate in IODP and other expeditions, including spending time at sea and in partner facilities in the UK and abroad
- Excellent analytical and technical skills, with a demonstrated ability to identify and solve problems.
- Excellent organisational skills.
- Excellent interpersonal skills.
- Ability to work independently and as part of an international team.
- High level of proficiency in English, sufficient to undertake research, teaching and administrative activities utilising English Language materials and to communicate effectively with staff and students

**Desirable**

- An ability to integrate a range of different data types (for example, petrophysical, seismic, petrological, sedimentological and geochemical data)
- Ability to take the initiative and be a self-starter.
- An ability to collaboratively seek and secure research funding.

*Criteria to be used in shortlisting candidates for interview*

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<th>VITAL</th>
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<td>The University encourages all staff to live our <a href="#">VITAL values</a> which are: Valuing People, Innovators, Together, Accountable, Leaders.</td>
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**Equality and Diversity**

We believe that equality, diversity and inclusion is integral to a successful modern workplace. By developing and implementing policies and systems that challenge stereotypes across all aspects of our work, we have a culture that recognises and values the diverse contributions of our staff which benefits everyone. Our strong values of inclusivity and equality support our efforts to attract a diverse range of high quality staff and students, and identify our University as a progressive and innovative workplace that mainstreams equality, diversity and inclusion.