

**Darlithydd Hydroleg a Deinameg Basnau Afonydd
Sefydliad Daeryddiaeth a Gwyddorau Daear, Aberystwyth**
Gradd 7 neu 8: £32,901 - £44,166

Mae'r Sefydliad Daeryddiaeth a Gwyddorau Daear yn awyddus i benodi geomorffolegydd neu hydrolegydd i gyfrannu at waith ymchwil a dysgu israddedigion ac uwchraddedigion o fewn y Grŵp Ymchwil Hydroleg a Deinameg Basnau Afonydd. Mae'n bosib y byddwn yn fwy awyddus i benodi pobl ag arbenigedd ym meysydd modelu hydroleg/hydrolegol, ecohydroleg a/neu asesu effeithiau newid amgylcheddol ar lifogydd ac adnoddau dŵr. Bydd yr ymgeisydd llwyddiannus yn ymuno â Grŵp Ymchwil Hydroleg a Deinameg Basnau Afonydd, sydd â hanes cryf o ymchwil a ariennir gan asiantau yn y DU ac yn rhyngwladol, gan gyfrannu at waith datblygu rhaglen newydd MSc arfaethedig, o dan y teitl 'Dŵr, Bywyd ac Iechyd' ar hyn o bryd. Annogir ceisiadau gan ymchwilwyr ar ddechrau eu gyrfa.

Swydd am gyfnod penagored yw hon, ar yr amod bod y cyfnod prawf yn cael ei gwblhau'n llwyddiannus. Bydd y penodiad yn cychwyn o 1 Ionawr 2013, neu cyn gynted ag y bo modd wedi hynny. Caiff darpar ymgeiswyr drafod y swydd yn anffurfiol â Pennaeth y Grŵp Ymchwil Hydroleg a Deinameg Basnau Afonydd, y Dr Stephen Tooth (ffôn: 01970 622361; ebost: set@aber.ac.uk).

Cyf: GE.12.18
Dyddiad cau: 18 Hydref 2012

Am fwy o wybodaeth ac am ffurflen gais ewch i <http://www.aber.ac.uk/cy/hr/jobs/vacancies-external/>

Dylid llofnodi'r ffurflen gais ar ôl ei llenwi ac yna ei dychwelyd i'r **Tim Recriwtio Adnoddau Dynol** drwy e-bost, ffacs neu post. Tîm Gweithredol: swyddi@aber.ac.uk / Ffôn: 01970 628555 / Ffacs: 01970 622975

NODYN: Nodwch gyfeirnod y swydd ar flaen yr amlen ac ar y ffurflen gais os gwelwch yn dda.

Sefydliad Dwyieithog sy'n gweithredu Cynllun Iaith Gymraeg ac yn ymroddedig i Gyfle Cyfartal.

FEL ARFER FE BENODIR I SWYDDI O FEWN 4-8 WYTHNOS WEDI'R DYDDIAD CAU. GALL YMGEISWYR NA FYDDANT WEDI DERBYN LLYTHYR ODDI WRTH Y BRIFYSGOL ERBYN Y DYDDIAD HWNNW RAGDYBIO NAD YW EU CEISIADAU YN CAEL EU HYSTYRIED YMHELLACH AC NA FYDDANT YN DERBYN GOHEBIAETH BELLACH.

Lecturer in River Basin Dynamics and Hydrology
Institute of Geography and Earth Sciences, Aberystwyth
Grade 7 or 8: £32,901 - £44,166

The Institute of Geography and Earth Sciences wishes to appoint a geomorphologist or hydrologist to contribute to research and teaching at undergraduate and postgraduate levels within the River Basin Dynamics and Hydrology Research Group. Preference may be given to individuals with experience in the areas of hydraulic/hydrological modelling and/or evaluating environmental change impacts on flooding, and water resources. The successful applicant will join the River Basin Dynamics and Hydrology Research Group, which has a strong record of research funded by UK and international agencies, and will contribute to the development of a proposed new MSc programme provisionally entitled Water, Life and Health. Applications from early career researchers are encouraged.

The post is an open-ended appointment, subject to the successful completion of probation. The appointment will be taken up from 1st January 2013, or as soon as possible thereafter. Prospective applicants may discuss the post informally with the the Head of the River Basin

Dynamics and Hydrology Research Group, Dr Stephen Tooth (tel: 01970 622361; e-mail: set@aber.ac.uk).

Ref: GE.12.18

Closing Date: 18 October 2012

For information and application forms please go to www.aber.ac.uk/en/hr/jobs/vacancies-external/

Completed Applications Forms should be signed and returned to the **Human Resources Recruitment Team** by e-mail, fax or post. Email address: vacancies@aber.ac.uk / Tel: 01970 628555 / Fax: 01970 622975

NOTE: Please put the post reference on the front of your envelope and on your application form.

We are a Bilingual Institution which operates a Welsh Language scheme and is committed to Equal Opportunities.

APPOINTMENTS ARE NORMALLY MADE WITHIN 4-8 WEEKS OF THE CLOSING DATE. IF WE HAVE NOT BEEN IN TOUCH WITHIN THIS TIMESCALE YOU MAY ASSUME THAT YOUR APPLICATION IS NOT BEING FURTHER CONSIDERED AND NO OTHER COMMUNICATION WILL BE SENT.

Further Particulars

Job Description

Aberystwyth University is seeking to make a significant investment in the Institute of Geography and Earth Sciences to consolidate established and emerging areas of research excellence ahead of the 2014 Research Excellence Framework exercise. As part of this investment we are intending to appoint a Lecturer to contribute to the work of our world-leading River Basin Dynamics and Hydrology Research Group and the associated Centre for Catchment and Coastal Research.

The post-holder will have a strong developing research record and will be expected to undertake research of international standing, to secure external funding for research, and to publish research findings in international peer-reviewed journals and other appropriate media. It is expected that the post-holder will be returned to the 2014 REF exercise, and the successful candidate will therefore have a sufficient quantity of high quality outputs published, in press or under review.

Teaching responsibilities will be negotiated on appointment and will reflect the successful applicant's expertise and experience, but will include both undergraduate and postgraduate teaching in Physical Geography and/or Earth Science. Undergraduate teaching will focus on contributions to the BSc Geography and BSc Physical Geography degree schemes through both specialist and general physical geography modules, and may include lectures, tutorials, seminars, laboratory and practical classes, fieldcourses and individual supervision.

At postgraduate level, the post-holder will be involved in developing and delivering a proposed new MSc programme in Water, Life and Health (provisional title), to be delivered jointly between IGES and the Institute of Biological, Environmental and Rural Sciences (IBERS). The successful applicant may additionally contribute towards teaching on other existing and proposed MSc programmes in IGES, including the MSc Climate Change (proposed), MSc Environmental Risk and Resilience (proposed), and MSc Food and Water Security.

The post-holder will also contribute as required to assessment and examination duties, the supervision of research postgraduates, and to the personal tutoring and provision of pastoral support for students. The post-holder will undertake administration in connection with his/her teaching and will contribute at an appropriate level to the general administration of the Institute as agreed with the Director (Head of Department). This will include participating in

student recruitment activities, representing the Institute within the University and the wider academic community, and other duties as may be required by the Institute Director.

The appointment will commence from 1st January 2013, or as soon as possible thereafter. The post is an open-ended appointment, subject to the successful completion of a probationary agreement, usually for a period of 3 years. The post-holder will be required to complete the Postgraduate Certificate in Teaching in Higher Education, unless he/she already holds an appropriate equivalent qualification. The appointment may be made at Grade 7 or Grade 8, with starting salary in the range £32,901 to £44,166, depending on experience and achievement. Candidates appointed at Grade 8 will normally be expected to hold a Postgraduate Certificate in Teaching in Higher Education or an equivalent qualification.

Person Specification

You will be a geomorphologist or hydrologist with a growing reputation and strong track record with research and teaching interests that complement and strengthen the current profile of the River Basin Dynamics and Hydrology Research Group, which include river systems and environmental change, river sedimentology and fluvial geochronology, and water and sediment quality. Preference may be given to applicants with research interests and expertise in hydraulic/hydrologic modelling, ecohydrology/eco hydraulics, and/or evaluating environmental change impacts on flooding, including flood hazard modelling and flood risk assessment, or on water resources, however candidates with comprehensive knowledge or interests in the subject may apply.

Applicants will be assessed against the following criteria, covering research, teaching and administration. The successful candidate must meet the indicated essential criteria, and preference may be given to a candidate who additionally meets one or more of the desirable criteria. Fit with the stated criteria will be assessed from the application (A) and by oral presentation (P) and interview (I). Only criteria assessed from the application form will be used in short-listing. All criteria will contribute to the final decision of the interviewing panel.

Essential Criteria

The successful candidate will demonstrate:

- A strong record of achievement in original research in the field of river systems and/or hydrology, that will complement and strengthen the profile of the River Basin Dynamics and Hydrology Research Group (A, P, I).
- Ambition to develop an international reputation in their research field, with a coherent and realistic plan for future research, including appropriate grant funding (P, I)
- A portfolio of internationally excellent research publications, appropriate to their career stage, that will strengthen the Institute's REF submission (A, I)
- A good knowledge of contemporary research, debates and techniques in physical geography, sufficient to support tutorial, practical and field teaching and supervision of student projects (A, I).
- Strong presentational, communication and pedagogic skills to support effective teaching at undergraduate and postgraduate levels (P, I).
- Ability to carry out day-to-day administrative tasks conscientiously, efficiently and in a timely manner (I).
- Ability to provide academic and personal support to students (I).

Desirable Criteria

Preference may be given to candidates who can demonstrate one or more of the following:

- Advanced knowledge and technical skills in hydraulic/hydrological modelling, ecohydrology/eco hydraulics and/or evaluation of environmental change impacts of flooding, including flood hazard modelling and flood risk assessment (A, I).

- Postgraduate training in Geography or a related discipline, as evidenced by an awarded PhD, or a PhD in the final stages of completion (A, I).
- Teaching interests that can significantly contribute to the Institute's taught postgraduate programmes, and enhance teaching in Physical Geography and/or Earth Science at undergraduate level (A, P, I).
- A record of successfully obtaining research grants or other external funding relevant to the post (A).
- Experience of developing and/or managing degree programmes (A, I).
- Experience of engaging non-academic research users in policy and commercial sectors in relation to flood risk and water management issues (A, I).
- Experience of teaching undergraduate and/or postgraduate classes in Geography or a related subject (A, I).
- Experience of assessment and marking for undergraduate and/or postgraduate courses (A).
- Experience of postgraduate supervision (A, I).
- Active participation in the subject community, through conferences and research groups and networks (A, I).
- A capacity to develop collaborative research both within the Institute of Geography and Earth Sciences and with colleagues in cognate departments (I).
- Training in teaching in higher education, as evidenced by the award of, or continuing study for, an appropriate teaching qualification (A, I).

Please go to the link below for the academic role profile Teaching and Research Grade 7:

<http://www.aber.ac.uk/en/media/TR2.pdf>

Or

Please go to the link below for the academic role profile Teaching and Research Grade 8:

<http://www.aber.ac.uk/en/media/TR3.pdf>

The Institute of Geography and Earth Sciences

The post will be based in the Institute of Geography and Earth Sciences (IGES) at Aberystwyth University. IGES is a leading international centre for research across the fields of human geography, physical geography, Earth science and environmental science and offers a high-quality working environment. As one of the largest departments of geography and Earth science in Britain, it currently has 42 full-time academic staff, over 20 post-doc research staff, 13 support staff and over 800 students registered on its undergraduate and postgraduate programmes.

The Institute was ranked 11th in Geography in the 2008 Research Assessment Exercise, with 65% of its research evaluated as world-leading or internationally excellent, and aims to improve on this position in the 2014 REF. It has secured over £7.5 million in external research funding since 2008, including awards from four research councils: AHRC, EPSRC, ESRC and NERC.

Excellent research facilities include Earth Observation, Luminescence and Palaeoecology laboratories, Dionex and ICP-MS instruments, an XRF Core Scanner, social science survey tools, access to the Welsh High Performance Computing facility, and an extensive collection of field equipment. The Institute has received over £0.8 million of capital investment over the last three years in upgrade computing infrastructure and remote sensing facilities, specialist glaciological field equipment, new ICP-MS instrument and new luminescence dating laboratory facilities. Additionally, the Institute has competitively secured investment totaling £2.75 million from the HEFCW Reconfiguration and Collaboration Fund since 2007 to develop research capacity as part of three collaborative initiatives: Centre for Catchment and Coastal Research (CCCR) (with Bangor University); Climate Change Consortium for Wales (C3W) (with Bangor, Cardiff and Swansea universities); Wales Institute of Social and Economic Research, Data and Methods (WISERD) (with Bangor, Cardiff, Glamorgan and Swansea universities).

Research activity in the Institute is organized around six research groups – River Basin Dynamics and Hydrology; Quaternary and Recent Environmental Change; Earth Observation and Ecosystem Dynamics; New Political Geographies; Cultural and Historical Geographies; and the Centre for Glaciology – and several thematic research clusters. The research clusters are limited-life initiatives aimed at developing new research agendas and encouraging collaboration across research groups, and with researchers in cognate departments. The research groups and clusters form part of a vibrant research environment that includes two guest research seminar series and a number of internal seminar series and reading groups, support for conference participation and fieldwork, a research planning and monitoring process, an internal peer review system and support for research grant preparation, and a quadrennial sabbatical system and policy for fieldwork leave, writing leave and research buy-outs outside sabbaticals.

The Institute has an expanding graduate school with over 100 taught and research postgraduates currently registered. The nine taught Masters programmes include a restructured suite of linked MSc programmes in Remote Sensing, comprising the MSc in Remote Sensing and Geography, MSc in Remote Sensing and GIS, MSc in Remote Sensing and the Living Environment, MSc in Remote Sensing and Planetary Science, and MSc in Remote Sensing and Computer Science; as well as the MSc in Environmental Monitoring and Analysis, MSc in Glaciology, MA in Landscape and Territory, MA in Practising Human Geography, MA in Regional and Environmental Policy, and inter-departmental MSc in Food and Water Security. Two further MSc schemes, in Climate Change and in Water, Life and Health, are currently in development. Additionally, the Institute has over 40 PhD and MPhil students, funded from a range of sources including ESRC, NERC, and collaborations with a range of businesses and agencies supported through the EU Structural Funds.

At undergraduate level, the Institute annually admits over 250 students across five single honours degree programmes, including BSc Geography, BSc Physical Geography, BA Human Geography, BSc Environmental Science, and BSc Daearyddiaeth (Welsh-Medium geography), as well as a range of Major/Minor and Joint Honours schemes. These schemes have a modular structure which permits students to combine a defined core comprising synoptic, practical and fieldwork modules with specialist options. Class sizes consequently vary between modules, ranging from over 200 to fewer than 20. It is anticipated that the post-holder will primarily support the BSc Geography and BSc Physical Geography schemes, which enables students to combine human geography and physical geography through all three years of study, but depending on expertise may also contribute to modules on any of the other undergraduate programmes.

Teaching facilities and resources in the Institute are excellent, including lecture and seminar rooms equipped with PowerPoint projection facilities and well-equipped teaching laboratories. Extensive computing facilities are available across campus, including a new digital resource centre and Map Library in the Institute. Teaching is supported through the web-based resources on the *Blackboard/AberLearn* platform. Pastoral support and personal development is provided for students through a free-standing tutorial programme. The Institute has consistently scored highly in the National Student Survey, and was the top-ranked department

in Britain for Human Geography and the third-placed department for Physical Geography on overall satisfaction in the 2011 NSS.

More details about the Institute, its teaching and its research can be found at: <http://www.aber.ac.uk/en/iges/>

River Basin Dynamics and Hydrology Research Group

The River Basin Dynamics and Hydrology Research Group is one of the UK leaders in rivers research with an established reputation for innovative blue skies strategic and applied research. The group currently comprises six academic staff, including Professor Mark Macklin, Professor David Kay, Dr Paul Brewer, Dr Hywel Griffiths, Dr Bill Perkins and Dr Stephen Tooth, as well as a number of post-doctoral research staff and postgraduate students.

The aim of the group is to understand, and predict, the effects of recent and long-term environmental change on catchment-wide fluvial and hydrological processes and river dynamics. Approaches used combine numerical modelling and innovative meta-analysis of environmental datasets acquired using state-of-the-art dating and laboratory methods in combination with group-based and remote Earth observation tools. The breadth and coherence of its research and its success in addressing both theoretical and applied research questions over a range of spatial and temporal scales in diverse environments spanning five continents, makes the River Basin Dynamics and Hydrology Research Group unique in UK Geography departments. Current research includes recently awarded

The group houses the Centre for Catchment and Coastal Research (CCCR), led in Aberystwyth by Professor Mark Macklin. CCCR was established in 2007 as part of the Research and Enterprise Partnership between Aberystwyth University and Bangor University, with £2.7 million of funding from the Higher Education Funding Council for Wales. CCCR brings together a multi-disciplinary consortium of leading environmental academics from the IGES, the Department of Computer Sciences and the Institute Biological, Environmental and Rural Sciences (IBERS) at Aberystwyth University; and the School of Ocean Sciences, the School of Biological Sciences and the School of the Environment and Natural Resources at Bangor University. There are also strong links with the NERC Centre for Ecology and Hydrology (co-located with Bangor University in the Environment Centre Wales). The mission of CCCR is to Integrate the study of rivers, estuaries and coastal waters within a single functional and linked system and thus establish a framework to provide substantial benefits for the long-term sustainable management of water, of rivers and of the land-ocean interface in Wales and internationally

In addition to CCCR, the River Basin Dynamics and Hydrology Research Group hosts two applied research and consultancy units, Fluvio and the Centre for Research in Environment and Health (CREH).

Since 2008, members of the River Basin Dynamics and Hydrology Research Group have secured over £5.15 million in research funding from sources including NERC, EPSRC, Defra, INTERREG and the European Commission Framework Programme 7, to support research in the UK, Europe, Africa, Asia and New Zealand. This includes the NERC Pilot Virtual Observatory in the Dyfi basin, which has been consolidated by the development of a Dyfi Catchment and Woodland Research Platform with Forest Research Wales. <http://www.forestry.gov.uk/fr/INFD-8S6FYH>

More information about the River Basin Dynamics and Hydrology Research Group and its activities can be found at: <http://www.aber.ac.uk/en/iges/research-groups/river-basin-dynamics-and-hydrology/>

Living and Working in Aberystwyth

All members of the Institute of Geography and Earth Sciences staff are housed in the Llandinam Building on the university's main campus over-looking Cardigan Bay. Facilities on

the campus include the Hugh Owen Library; the university Sports Centre, including gym, swimming pool, climbing wall and all-weather outdoor pitch; and the Aberystwyth Arts Centre, which hosts touring exhibitions, concerts and gigs, as well as including a cinema, theatre, dance studio, bookshop, cafe and bar. The National Library of Wales, located immediately adjacent to the campus, is one of five copyright libraries entitled to receive copies of everything published in the UK. Its stock includes over five million books and 24,000 current journals.

Aberystwyth is a vibrant town of around 25,000 residents. As the regional centre for mid-Wales it boasts a good range of shops and facilities, whilst the presence of institutions including the university, National Library, and Welsh Assembly Government offices, and a summer tourist trade, supports numerous bars and restaurants and a lively entertainment scene that reflects the cultural diversity of the town. The quality of life is further enhanced by the ease of access to some of the most spectacular countryside in Europe, including the immediate hinterland of the Cambrian Mountains and the Ceredigion Heritage Coast. The national parks of Snowdonia, the Pembrokeshire Coast and the Brecon Beacons can all be reached within an hour or two's drive. Aberystwyth is the only university in the western world to be located within a UNESCO Biosphere, lying inside the transition area of the Dyfi Biosphere designated in 2009.

More information about living and working in Aberystwyth can be found at:
<http://www.aber.ac.uk/human-resources/en/aberguide/index.shtml>

This job description is subject to review and amendment in the light of the changing needs of the University, to provide appropriate development opportunities and or the addition of any other reasonable duties.