

Further Particulars – Ref: ASS/2385

THE UNIVERSITY OF DUNDEE

DUNDEE UNESCO CENTRE FOR WATER LAW, POLICY AND SCIENCE

CHAIR IN WATER SCIENCE

JOB SPECIFICATION

Research Leadership The Chair will be a scientist of international standing, working at the cutting edge of water science and a demonstrable research leader in his/her specialist field. We wish to appoint in the field of catchment science in order to enhance our delivery of the UNESCO Hydrology, Environment, Life and Policy (HELP) programme. Working with the Director and the Director of Research, the Chair will develop a research group in catchment science to help deliver the Centre's mission statement and strategic vision.

The successful candidate will have a proven research record including the successful supervision of PhD students. The Chair will be responsible for mentoring existing lecturers and supporting them in their research aspirations, consistent with the Centre's agreed research agenda.

Research Specialisation The Chair will have an international research profile in catchment science, be enthusiastic in promoting the UNESCO HELP philosophy and using water science to assist in achieving the UN's Millennium Development Goals. The Chair will work alongside Professor Alan Werritty (Professor of Physical Geography and with expertise in catchment hydrology and flood risk management) and Professor Mike Bonell (past Global Co-ordinator of the UNESCO HELP programme, and with expertise in process hydrology, rainfall climatology and forest-land management). Active collaboration with other water scientists in Geography, Life Sciences and Civil Engineering will be encouraged.

Research Funding and Outputs Given the need for long-term sustainability, the Chair will lead on major grant applications to UK Research Councils and other funding bodies such as the EU Framework Programme 7, World Bank, Development Banks and multilateral and bilateral donors. A demonstrable track record in awards of this sort will be highly advantageous.

The Chair will generate cutting-edge outputs in leading international peer-reviewed journals/research monographs and reports to funding bodies.

Transdisciplinary and interdisciplinary context The Chair should be keen on working across specialisms within catchment science and in interdisciplinary teams across science, policy and law. He/she should demonstrate an ability to do this through a record of past collaborative research and/or project work. International experience in this area would be an asset.

Teaching and Training The Chair will assist with the development of the *Water Law - Water Leaders* an innovative professional Masters degree programme designed to train the next generation of senior water managers within government, international agencies and the private sector. There is also a requirement to supervise Masters and PhD level students, many of whom will be from overseas. Good communication and mentoring skills, with cultural awareness skills, are required.

Administrative Duties The UNESCO Centre has a small core team and works collectively to develop and implement new research and teaching programmes. The Chair will be proactive in undertaking appropriate administrative duties as assigned by the Director. This will include Quality Assurance at School and College levels for specified teaching programmes and liaising with other Centre staff in developing and implementing new initiatives in research and teaching. All staff are required to contribute towards the successful operation of the Centre.

THE UNESCO CENTRE FOR WATER LAW, POLICY AND SCIENCE

Research Vision

The Dundee UNESCO Centre for Water Law, Policy and Science (founded in 2005) is one of 10 UNESCO Water centres around the world and the only UNESCO Centre in a UK university.

The vision of the Centre is to become the world leader in water law, policy and science to better equip states address the global water problems of the 21st century. Working at the interface of law, science and policy, the Centre will undertake research to assist national governments and international agencies meet the UN's Millennium Development Goals (MDGs) to alleviate poverty in regions of growing water scarcity and develop innovative models and practice for managing river basins. The Centre will also consolidate and enhance existing expertise in water-related research at the University and within Scotland.

Two drivers underpin this vision:

- *Interdisciplinarity* lies at the heart of the Centre's research strategy. Given the threats posed in the 21st century by climate change and population growth, delivering on the UN's MDGs and helping to alleviate poverty via equitable and sustainable use of water resources requires an interdisciplinary approach which brings together lawyers, scientists and policy makers. Likewise the sustainable management of river basins requires effective engagement between key stakeholders, lawyers, scientists and policy makers (as expressed in the UNESCO HELP programme) and a *transdisciplinary* approach to catchment science.
- *Effective dissemination* is the other key driver in the Centre's research strategy. The *Water Law – Water Leaders* taught LLM will be specifically designed to use the Centre's research outputs to educate and train the next generation of water managers at senior levels within government, international agencies and the private sector.

Many of the key leaders and opinion-formers in international water resources development already look to the Dundee UNESCO Centre for expertise in water law, policy and science. Accordingly, implementation of the vision will initially proceed by building on existing strengths in the following areas:

- International water law
- National water law
- Transnational water law
- River basin management and catchment science
- Sustainable flood risk management

Staffing and Resources

Following its establishment by UN Resolution 33 C/53 (5 October 2005, UNESCO General Conference, 33rd session, Paris), the UNESCO IHP-HELP Centre on Water Law, Policy and Science has been initially funded by a £1.7m Strategic Development Research Grant (SRDG) from the Scottish Funding Council and a £0.75m Strategic Research Investment Grant (SRIF) by the University of Dundee.

The SRDG grant has thus far supported the appointment of:

Professor Patricia Wouters (Director)	International Water Law
Professor Alan Werritty (Research Director)	Hydrology
Professor Mike Bonell (Co-ordinator HELP programme)	Catchment Science
Dr Alistair Rieu-Clarke (Lecturer)	International Water Law
Mr Andrew Allan (Lecturer)	National Water Law
Dr Michael Hantke-Domas (Lecturer)	Transnational Water Law
Dr Sarah Hendry (Lecturer)	National Water Law
Mr Michael McGuigan (Business Development Manager)	

plus 10 PhD studentships.

The UNESCO Centre also has two externally-funded research fellows:

Dr Tom Ball (UKRC Academic Fellow)	Sustainable Flood Management
Monica Garcia Quesada (SUEZ Research Fellow)	Transnational Water Law

The Centre also has many Associates in the University drawn from the School of Social and Environmental Sciences, the School of Law and the College of Life Sciences. These Associates share our vision of an inter-disciplinary approach to research on water.

The SRIF grant has enabled the Centre to be located in the recently renovated Peters Building with well-equipped offices for staff and clusters of work stations for students. All rooms are equipped to a high standard with state of the art computers and communication systems. A Board Room which provides space for seminars, teaching small groups and video-conferencing can also be used to host small meetings (up to 30 persons).

The Chair will also have access to field and laboratory equipment held by Geography in the School of Social and Environmental Sciences. Field-based infrastructure is focused on a major NERC-JIF investment in the River Feshie (one of four CHASM catchments) with stream flow measured using ultra sonic and ADCP technology, water quality by ISCO samplers and water fluxes determined from a network of automatic weather stations and precipitation gauges. Other specialist field-based equipment includes a Leica dGPS, an ice drill, a second ADCP and Mackerith mini corer. Specialist laboratory equipment includes an Ortec low energy gamma spectrometer (for radiometric dating and tracer-based research), a Coulter LS230 (for laser granulometry and surface area analysis) and Bartington MS2 sensors (for mineral magnetic measurements). Geography also has a GIS laboratory and expertise in remote sensing enhanced by access to the NERC-funded Dundee Satellite Receiving Station.

Specialist equipment for water science is also available in the School of Engineering and Physics and Mathematics and the College of Life Sciences.

The HELP Programme and Catchment Science

One of the major activities of the Centre is to co-ordinate the European basins which comprise part of UNESCO's global HELP programme. As an initial investment in catchment science, we have identified the River Tweed (one of Scotland largest river basins) as Scotland's HELP basin and, via co-operation with the Tweed Forum, are forging links with stakeholders whose management responsibility involves some key hydrological issues in Scotland. Examples include the management of floods in rural communities, the links between land management approaches and surface/ subsurface water flows, water quality and EC Water Framework Directive target delivery. This programme is led by Professor Bonell assisted by Dr Tom Ball, Dr Sarah Hendry and Professor Alan Werritty.

It is hoped that the newly appointed Chair in Water Science will assist in the development of the River Tweed as a Scotland's HELP basin and develop his/her own research programme in catchment science alongside this initiative.

ACADEMIC POSTS – TERMS & CONDITIONS

These are the general terms and conditions for full-time Academic staff. Part-time staff terms and conditions are pro-rata.

Hours of Work

Working time is that reasonably required to fulfil the duties of the post.

Annual Leave

39 days annual leave, this includes all public holidays. The leave year runs from 1 January to 31 December.

Pay Scales

Payment is made on the Professorial salary range and is reviewed annually.

Salary Payment

Payment is made monthly in arrears.

Superannuation

Contributions are made by both the employee (6.35% of salary) and the University, with the University meeting the balance of the cost of the benefits, to the Universities Superannuation Scheme. Superannuation is a choice and is not compulsory for the employee; however you will be opted into the Scheme unless you inform the Pensions Office that you do not wish to join before you take up your employment. Employees with a contract for at least 3 months are eligible to join up to age 64, although there are additional contributions payable for those joining USS who are age 60 or above.

Retiral

Academic staff will retire on 30 September following their 65th birthday but may retire at any time following their 60th birthday on giving due notice.

Occupational Sick Pay Scheme

There is an occupational sick pay scheme where the period of entitlement to paid sick leave is based on the length of continuous service. After 5 years' service an employee is eligible for 6 months 'full pay' and 6 months 'half pay'.

Family Friendly Policies

There is a range of policies designed to support staff to balance work and home life and deal with personal responsibilities, as well as some of life's major events. These include Adoption leave, Compassionate Leave – Bereavement, Family Leave – Children and Dependants, Fertility Treatment Leave, Flexible Working, Foster Care Leave, Jobshare / Part-time Working, Maternity Leave, Parental Leave and Paternity / Maternity Support Leave.

ADDITIONAL INFORMATION

Qualifications

The University's selection procedure requires that successful candidates for Academic posts have their qualifications validated. One or more of the institutions which have awarded the successful candidate a degree or professional qualification will be contacted, therefore, by Personnel Services.

Disclosure Scotland Checks

The post for which you are applying is considered to be a child care position in terms of The Protection of Children (Scotland) Act 2003. It requires the successful applicant to undergo a satisfactory Disclosure check through Disclosure Scotland prior to appointment. This check is necessary to ensure that the University of Dundee fulfils its legal duties under the Act.

If you are successful in your application, the offer of employment will be subject to a satisfactory Disclosure Report. The University will make a Disclosure application to Disclosure Scotland which will reveal any past criminal convictions (spent or unspent) or inclusion on the Disqualified From Working with Children List. Any non-conviction information held locally by the police may also be disclosed should this be considered relevant to the position.

Please note it is a criminal offence to apply for a child care position if you are on the Disqualified From Working with Children List.

No Smoking Policy

The University operates a no-smoking policy, with designated smoking areas available in some areas.

Equal Opportunities

The University is committed to equal opportunities and welcomes applications from all sections of the community.

Removal Expenses

The University makes a contribution towards relocation expenses incurred by newly appointed members of staff in moving to Dundee to take up their appointments. The reimbursement is subject to a maximum of the equivalent of one month's gross pay calculated on basic starting salary (this does not include any shift allowances, out of hours intensity supplements, distinction awards, etc). Additional assistance may be given in respect of removals from overseas. If relocation expenses are paid and the member of staff leaves within two years, the University will require repayment of any such relocation expenses. Less than 2 years will be reimbursed on a fractional basis. Recovery will be at the rate of 1/24th for each month less than 2 years worked and will be automatically deducted from the final salary payment. Please see enclosed Relocation Expenses document for more detailed information.

APPLICATIONS

Applications in the form of a CV (3 copies) and the Candidate Information Form with the names and addresses of 3 referees should be sent to Personnel Services, University of Dundee, Dundee, DD1 4HN, UK. It is the practice, in this University, that references are taken up before interviewing. If you do not wish us to contact any of your referees without your prior consent, please state this clearly on your CV and Candidate Information Form.

Closing date for applications is **13th October 2008**

Please quote reference number: **ASS/2385**.