

CHAIR IN CHEMISTRY

Job Ref: A-571742

Department: School of Physical Sciences, Department of Chemistry and Stephenson Institute for Renewable Energy

Salary: Negotiable
Permanent

Tenure:

Location: University Campus
work: Full-Time

Hours of

Closing Date: 31 January 2012
Date: To be confirmed

Interview

Informal enquiries to Professor Andrew Hodgson on +44 (0)151 794 3536
(HYPERLINK "<mailto:ahodgson@liv.ac.uk>" ~~ahodgson@liv.ac.uk~~) or Professor
Werner Hofer on +44 (0)151 794 3879, (whofer@liv.ac.uk)

Application Procedure

Applications should comprise:

*A completed **applicant information form**

* A copy of your **full curriculum vitae**

*A statement indicating the reasons for applying for this post and how your training and experience is relevant.

If you have any particular requirements should you be invited to interview, please make this clear in your application.

Submitting Applications

Applications may be submitted by e-mail to jobs@liv.ac.uk or by post or in person to: The Director of Human Resources (Recruitment), The University of Liverpool, Hart Building, Mount Pleasant, Liverpool L3 5TQ

ROYAL MAIL – Postal Pricing System. Please ensure that postal applications carry the correct postage according to the weight and measurement of the item, as items with insufficient postage will be held and delayed by the Royal Mail. Details of their pricing system are available online at www.royalmail.com or from a Post Office branch.

Asylum & Immigration

The University will comply with the Immigration, Asylum and Nationality Act 2006, which requires all employees to provide documentary evidence of their legal right to work in this country prior to commencing employment. Please be aware that you will be required to bring your passport (and visa if applicable) to interview so that it can be copied and verified by a member of the Selection Panel. For posts requiring a recognised degree level or equivalent qualification, and where there is no suitable UK or European Economic Area candidate, the University will take the necessary steps to secure UK Border Agency permission for a foreign national to take up employment.

Should a candidate require a Certificate of Sponsorship in order to take up a post they will need to meet the UK Border Agency Tier 2 Points Based Criteria. A self assessment tool can be found on the UK Border Agency website at: www.ukba.homeoffice.gov.uk/pointscalculator

A candidate may also be required to undertake an English Language test prior to commencing work at the University. Details of Home Office approved tests can be found at: www.ukba.homeoffice.gov.uk/sitecontent/newsarticles/pbsapprovedenglishlanguage

Further information on the eligibility criteria for Certificates of Sponsorship can be found at: www.ukba.homeoffice.gov.uk/employers/points

Diversity and Equality

The University of Liverpool is committed to diversity and equality of opportunity. All employees and applicants for jobs will be considered on their abilities and will not be discriminated against on the grounds of age, caring responsibilities, colour, disability, employment status, gender, gender identity, marital status, nationality, race or ethnic origin, religion or belief, sexual orientation, socio-economic status or any other irrelevant distinction. Training is available to support career progression within the University.

Two Ticks Disability : Guaranteed Interview Scheme (GIS)

The University of Liverpool is committed to the employment of disabled people, and as part of our commitment, we guarantee to interview all disabled applicants who meet the essential criteria for a post and consider them on their abilities. If your disability prevents you completing the application form by the specified closing date, or when the vacancy closes early, due to a high volume of applications, please call the Recruitment Team to discuss alternative arrangements.

To apply for a post under the disability GIS, you must disclose your disability (as defined by the Disability Discrimination Act, 2005), and mark **X** in the **yes** box on the Equal Opportunities Employment Form. This form **must** be returned with your application form. Full details of the scheme are available at [HYPERLINK "http://www.liv.ac.uk/hr/organisational-development/Two_Ticks.htm"](http://www.liv.ac.uk/hr/organisational-development/Two_Ticks.htm) ~~www.liv.ac.uk/hr/organisational-development/Two_Ticks.htm~~

Accessibility

If you require copies of documentation in alternative formats, for example, large print or Braille, please contact jobs@liv.ac.uk or telephone 0151 794 6771.

If you have any other requirements which will help you access the application or interview process or employment opportunities at the University of Liverpool, please let us know by contacting jobs@liv.ac.uk or telephone 0151 794 6771.

S m o k i n g

The University has adopted a Code of Practice on Smoking, copies of which are available from the Human Resources Department website www.liv.ac.uk/hr

PS / 02 December 2011

The City of Liverpool

Liverpool has a famous history, but the Liverpool of today is a changed city, now energetically regenerating itself by building on its rich heritage and cosmopolitan reputation to emerge as one of the UK's leading centres for culture and entertainment, learning and endeavour. Liverpool today can offer a café society, first-class restaurants and bars, beautiful parks, sport, music, theatre and art galleries and museums. Liverpool was awarded the title European Capital of Culture in 2008.

Architecturally, Liverpool is an outstanding city with an extraordinarily rich heritage of building, public squares and civic parks. It has two exceptional cathedrals, looking towards each other along Hope Street, two famous football teams (Liverpool and Everton), and an internationally recognised waterfront on the River Mersey. The Pier Head and the Albert Dock forms part of the UNESCO World Heritage Site: Liverpool Maritime Mercantile City.

Liverpudlians themselves are famous for their music, humour and creativity. They have a well-deserved reputation for friendliness, and a sure sense of their own identity. For further regional information, visit the web site: <http://www.merseyworld.com>

The University of Liverpool Overview

The University of Liverpool is a pre-eminent research-based university with 18,000 students pursuing over 400 programmes spanning 54 subject areas.

There are three faculties, including Health and Life Sciences; Humanities and Social Sciences; and Science and Engineering. These are organised into 35 departments and schools.

Turnover for 2008/09 was £364 million, including £130 million for research. 5,000 people work at the University, including nearly 1400 academic and 800 research staff.

68.8% of the University's students achieved a First or 2:1 from classified degrees in 2008 and worldwide there are 155,000 alumni, living in 159 countries.

The University of Liverpool is a member of the Russell Group and is ranked by *The Times* as the UK's 14th largest research university, with a top ten rating for research productivity and industrial grant income.

Further background information about the University can be found at:

<http://www.liv.ac.uk/> <http://www.liv.ac.uk/annual-report/>

Vision

The University of Liverpool is a distinguished 21st century university with global reach and influence that reflects its academic heritage as a civic institution. Its vision for excellence resolves that:

A strong infrastructure will support academic endeavour and teaching prowess, while research excellence, focused on the achievement of human knowledge, will underpin all its activities.

The University's culture of support and collaboration will benefit the communities in which it operates, both at home and overseas. Staff and students will be given the best intellectual, social and physical environment to research, teach and learn in, at the cutting edge of their disciplines and with world-class facilities.

The Liverpool Graduate will be a global citizen, benefiting from an international curriculum and experience, and empowered to address global challenges. The University will strive to ensure that its students form a relationship with the University that they will want to continue throughout their lives.

Further information can be found in the University's Strategic Plan for 2009-14 at:

http://www.liv.ac.uk/staff/strategies_policies/strategic-plan.pdf

Research

The University of Liverpool specialises in leading research in Arts and Humanities, Engineering, Medicine, Science, Social & Environmental Studies, and Veterinary Science.

Voted the second best place for post-doctoral researchers to work outside of the USA and making a £200 million investment in infrastructure and state of the art facilities, the University's research activity takes place through over 2000 research projects and over 50 specialist research centres which are home to over 1300 leading researchers, 680 research staff, 2860 research support staff and 1480 postgraduate research students. Further information about Research at the University of Liverpool can be found at:

<http://www.liv.ac.uk/research/index.htm>

A Global University

The University of Liverpool is looking outwards, across the world, to create a new international network for education and research, working with leading institutions. These new partnerships will go beyond simple exchange programmes or research alliances. They will integrate activity, for example by co-awarding Degrees. The first venture of this type, Xi'an Jiaotong-Liverpool University in China, is proving a great success and will be educating 10,000 students per year by 2015. Many will spend a year in Liverpool. Further joint ventures are in the pipeline, starting with Andres Bello University in Chile, Universidad del Valle in Mexico, and Universidad Europea in Spain.

Further information about the University's global reach and international character can be found at:

HYPERLINK "<http://www.xjtlu.edu.cn/>" HYPERLINK "<http://www.xjtlu.edu.cn/>"
HYPERLINK "<http://www.liv.ac.uk/xjtlu/>" HYPERLINK "<http://www.liv.ac.uk/xjtlu/>"
HYPERLINK "<http://www.liv.ac.uk/international/>"

The Department of Chemistry

The Department of Chemistry, within the School of Physical Sciences, is one of the oldest in the country, forming part of the original University College in 1881 under the leadership of one of the University's founding father's, Campbell-Brown. The chemical industry in the northwest was even at that time buoyant, and there was significant interaction with the University then, as now with famous chemists such as Muspratt and Brunner teaching and researching in the fledgling Department. The accommodation has moved forward significantly since those early days with the present laboratories being built following the post war expansions in higher education. The Department occupies the largest stand-alone building on the campus with state-of-the-art teaching and research facilities. There is always ongoing developmental work on the fabric of the Department which has seen within the past 3-5 years totally refurbished synthetic chemistry laboratories, an attractive newly designed entrance hall and extensive lecture theatre modifications.

Staff

At present, there are 14 professors, 4 emeritus professor, 5 readers and 19 senior lecturers and lecturers. The Department has over 32 support staff, including analytical services, teaching technicians and administrators. In October 2008, Professor Andrew Cooper was appointed Head of Department and subsequently appointed Head of the new School of Physical Sciences, comprising Chemistry and Physics in 2009. Professor Andrew Hodgson is now Head of Chemistry.

Research

For chemists research has always been vital to the University, and the Institution is associated with 8 Nobel Prize winners including Sir Robert Robinson and Professor H. Gobind Khorana. In the 2001 Research Assessment Exercise, 93% of staff were in Schools classified as 4, 5, and 5*. In the 2008 RAE the Department of Chemistry, in the School of Physical Sciences was judged to have 70% of its research in the 4* (world leading) and 3* (internationally excellent) categories and is ranked 8th in the UK overall for the quality of its research. The University attracts £93M annually in research commissions with the School of Physical Sciences a major contributor to this.

The Department's research interests are many and varied, spanning the entire range of chemistry from theoretical solid-state studies to synthetic work at the biological interface. While proud of chemistry's traditions at Liverpool there has also been great innovation at crossing sectional boundaries with the formation of Centres in Medicinal Chemistry, Materials and Catalysis, Surface Science and Nanoscale Science. While these important research groupings serve to aid presentation of their own work, there are additional strong, lateral interactions between the Centres which give rise to innovation and healthy intra-departmental collaboration. Our Department is firmly committed to research excellence and sees this intimately bound to innovation, extending into the industrial base in the north-west – for example, via the establishment of the Centre for Materials Discovery (HYPERLINK "<http://www.liv.ac.uk/materials-discovery>"~~www.liv.ac.uk/materials-discovery~~) and the Knowledge Centre for Materials Chemistry (HYPERLINK "<http://www.materialschemistry.org>"~~www.materialschemistry.org~~), both of which encompass strong links to industry and research themes which are cognate to the Stephenson Institute. The Department has a unique track record for interacting with industrial organisations from SMEs to multinational concerns and is always looking for new ways and opportunities to bring its research expertise into the commercial sector.

The Department of Chemistry at Liverpool is among the top 5 Departments for research income in the UK and this arises from the public purse and industrial sponsorship. It also has the largest graduate school within the University of Liverpool with over 100 full-time graduate students currently registered.

Teaching

The Department offers a wide range of programmes at both the undergraduate and postgraduate level and a very active recruitment programme which includes all of the academic staff. Undergraduate programmes (with an annual intake of around 80 students) place great emphasis on allowing student to experience chemistry first-hand by problem-based teaching. This integration attempts to broach traditional subject boundaries and also close the gap between theoretical and laboratory studies. By deploying the University's Virtual Learning Environment, all academic staff are encouraged to be innovative in their approaches to learning and teaching and it is hoped that the appointee will have ideas and skills to bring to the Department. In addition, the Department seeks to extend its teaching portfolio at both the undergraduate and postgraduate level and again leadership from the successful candidate will be expected. Further information about the Department of Chemistry can be found at:

HYPERLINK "<http://www.liv.ac.uk/chemistry/>"~~http://www.liv.ac.uk/chemistry/~~

The Stephenson Institute for Renewable Energy

The Stephenson Institute is a recently founded interdisciplinary research institution within the School of Physical Sciences, University of Liverpool, which will play a leading role in renewable energy research. Expansion in this field is of strategic importance to the University and as such there is major investment behind the Institute. The Institute will be housed on campus in a building to be refurbished to the Institute's requirements. The Institute will include a newly appointed Chair of Energy Physics, this position, current University staff from a broad range of disciplines and Institute appointments of two senior lecturships/readerships, and seven lectureships.

Background

The University of Liverpool is launching the Stephenson Institute for Renewable Energy to undertake research into renewable energy sources.

As supplies of current fossil-based fuels diminish, the development of new energy sources is one of the defining challenges of the 21st Century. This Institute will bring together energy-related research activities from across the University to focus on developing clean and sustainable energy technologies including energy dissipation and friction, wind and marine energy, fusion technology, photovoltaics, carbon capture and storage, sustainable feedstocks, batteries, fuel cells, hydrogen generation and storage, solar harvesting, energy transport.

In addition to its research programme, the Stephenson Institute will allow students and postgraduates to work on energy-related projects and technologies providing them with relevant skills and knowledge to meet the UK and global demand for graduates in this emerging job market. The Institute will develop expert networks, including policy-makers and management, to highlight global energy and sustainability issues.

The Stephenson Institute will make a significant contribution to the implementation of the University of Liverpool's strategy. Energy is one of seven high priority research themes at the University and the Institute will lead the strategic re-orientation of existing research groups in this area, contributing to the improvement in research performance in terms of increasing grant income and industrial sponsorship and providing a new centre of innovation for energy research and knowledge exchange with external partners.

Establishment

The Institute's Director is Professor Werner Hofer. Recent appointments include: Professor Ken Durose as Professor of Physics, Dr Laurence Hardwick, Dr Tony Lopez-Sanchez, Dr Yuri Proskuryakov, Dr Gilberto Teobaldi and Dr Tim Veal. A further five appointments are to be made in Physics and Chemistry plus this Chemistry chair.

The Stephenson Institute enjoys substantial investment from the University in terms of 11 permanent positions and will be accommodated in 2000m² of the Chadwick Building which will be completely refurbished (£6 million) giving spacious modern laboratories as well as meeting and office space. The estimated completion date for the works is October 2012.

Research Leadership Activity

Research networks within and beyond the University of Liverpool will be established and developed and the Institute will run dedicated series of presentations and networking events for academics from across the whole campus; provide new common space within the Stephenson Institute for research meetings and meetings with industrial partners; lead and facilitate high level discussion meetings to determine potential scope for inter-faculty collaboration; award the Stephenson prize for the most important contribution to energy research at Liverpool University from a staff researcher; become an integrated part of an industrial network in the North West of England.

Further information about the Stephenson Institute can be found at:

<http://www.liv.ac.uk/stephenson-institute/>

The post

You should be able to show a strong track record of research in an area complementary to the Departments existing research interests. Applications will be considered from any area of Chemistry, but would be particularly welcomed in the areas of solid-state NMR, Catalysis, Organic Chemistry, Materials Chemistry, Electrochemistry or Energy (including for example in photovoltaics, carbon capture and storage, sustainable feedstocks, batteries, fuel cells, hydrogen generation and storage); or a related area. Internationally recognized research excellence will be the primary recruitment criterion.

The Department of Chemistry has research groupings in organic and biomolecular chemistry, catalysis, materials chemistry, surface science, theoretical and computational chemistry, and chemistry on the nanoscale. The Materials Chemistry group has a strong presence in the fields of polymers, oxides and porous materials for energy applications. The Stephenson Institute for Renewable energy currently has research groups in the area of photovoltaics, catalysis and battery storage.

Informal enquiries about the position should be addressed to the Head of School, Prof Andy Cooper, +44 (0) 151 794 3539 (HYPERLINK "<mailto:aicooper@liv.ac.uk>"~~aicooper@liv.ac.uk~~), the Head of Department of Chemistry, Professor Andrew Hodgson +44 (0) 151 794 3536 (HYPERLINK "<mailto:ahodgson@liverpool.ac.uk>"~~ahodgson@liv.ac.uk~~) or the Director of the Stephenson Institute, Professor Werner Hofer +44 (0) 151 794 3879 (HYPERLINK "<mailto:whofer@liv.ac.uk>"~~whofer@liv.ac.uk~~). For information about the Chemistry Department and Stephenson Institute visit HYPERLINK "<http://www.liv.ac.uk/chemistry>"~~http://www.liv.ac.uk/chemistry~~ or HYPERLINK "<http://www.liv.ac.uk/stephenson-institute/>"~~http://www.liv.ac.uk/stephenson-institute/~~ .

The post is available from 1 April 2012 or as soon as possible thereafter.

The duties of the post will be:

Contribute to the Department of Chemistry by:

Providing input into the Department's academic strategic planning

Taking part in the teaching activity of the Department, by various methods of delivery, to undergraduate and postgraduate levels in areas of chemistry associated with the areas represented in the appointment

Undertake assessment and examination duties as required
As required, undertaking administrative, representative and associated tasks
Contribute to research of the Department of Chemistry/Stephenson Institute (as appropriate)
Developing and leading a research group
Generating significant grant income
Producing publications of high scientific quality in high impact journals
Promoting more generally the research culture and activities of the Institute, Department, School and University through collaborative work

Contribute to the Stephenson Institute (if energy related) by:

Identifying and energising collaborative research activity, bringing together those research endeavours which, though currently being pursued separately, further the overall research foci of the Institute
Acting as a voice for and representative of the Stephenson Institute within the School and the University and, where appropriate, with external bodies such as funding agencies and councils, industry, and policy bodies

In addition the Chair will be expected to provide research leadership at an internationally-recognised level, in any substantial area of materials chemistry, electrochemistry, or a closely related field at the interface of chemistry and energy.

This research leadership will include:

Developing and leading a research group
Generating significant grant income
Producing publications of high scientific quality in high impact journals
Promote more generally the research culture and activities of the Institute, Department, School and University, through collaborative work

Contribute to the overall strategic leadership of the Stephenson Institute by:

Identifying and energising collaborative research activity, bringing together those research endeavours which, though currently being pursued separately, further the overall research foci of the Institute
Acting as a voice for and representative of the Stephenson Institute within the School and the University and, where appropriate, with external bodies such as funding agencies and councils, industry, and policy bodies.

Removal

9. (a) The University will normally provide financial assistance to newly appointed members of staff (excluding research staff funded from outside sources) who are required to relocate within a reasonable distance of the University.
- (b) Claims for relocation from any point in the British Isles
In normal circumstances claims for reimbursement will not exceed;
- (i) The full costs of removing furniture and personal effects to the new area; costs of storage incidental to the move will normally be met for a period not exceeding two weeks. The member of staff must personally obtain three written quotations from independent removal companies, if appropriate, or alternatively are permitted to submit claims for carrying out their own removal.
The member of staff may choose any of the three companies, however the University will only reimburse the cost of the lowest quotation. The member of staff must submit a receipted invoice.
- (ii) Any identified costs connected with the move up to a maximum of one month's gross basic salary (as payable on commencing the appointment attracting eligibility to removal expenses) as specified in your letter of appointment or Statement of Terms and Conditions. Such other expenses may include legal fees, estate agents and surveyors fees, preliminary visits to the area to view prospective properties, stamp duty, fixtures and fittings etc. Storage costs for furniture and personal effects may be reimbursed beyond two weeks from within the one month's gross basic salary claimable by the member of staff.
- (c) Claims for relocation from Abroad
Claims for reimbursement will be considered individually on their merits by the Director of Human Resources but will as far as possible be in line with the procedure set out in (b) above.

- (d) In making a claim for removal expenses a member of staff must:-
- (i) have received and accepted a written offer of employment with the University.
 - (ii) acknowledge that should the appointment not last for a period of three years, the University retains the right to reclaim all, or a proportion of the payment made.

Up to 6 months	100% reclaim
Over 6 months up to 12 months	80% reclaim
Over 12 months up to 18 months	60% reclaim
Over 18 months up to 24 months	40% reclaim

The requirement to repay removal expenses will be waived where a member of staff leaves before three years have expired through any change instigated by the University over which the individual has no direct control.

Any claims for relocation should normally be made within three years of taking up an appointment attracting eligibility for removal expenses.

Conditions of appointment

Any appointment to this post will be subject to the University's standard conditions of appointment, a copy of which is enclosed. No person other than the Registrar has authority to notify a variation in these conditions. Any purported variation made by any other individual shall be void and not binding upon the University.

Heads of School/Departments in the University are appointed by the Council, normally for a period of at least four years but with the possibility of re-appointment, from among the Professors, Readers and Senior Lecturers in the School/Departments, on the recommendation of a Selection Committee consisting of the Vice-Chancellor and the Pro-Vice-Chancellors. Professor Andrew Hodgson is currently the Head of the Department of Chemistry.

Pension

The Occupational Pension Scheme associated with this appointment is the Universities Superannuation Scheme (USS).

Full particulars of the scheme can be obtained, on request, from the Director of Human Resources.

An acceptance of this appointment will be taken as an application to join USS and have the appropriate contributions deducted from salary unless the Director of Human Resources is expressly notified in writing either before commencing employment, within three months of that date or on expiry of three months notice,

that the appointee intends to make his or her own pension arrangements.

Should the appointee decide to make his or her own personal pension arrangements, the University will not contribute to the personal arrangement. No other form of supplementation of pension benefits will be available from the University.

It may be possible for a newly appointed member of staff who has not been in USS to have his or her accrued benefits from his or her former pension scheme transferred to the USS. In such a case, USS will be asked to investigate a transfer payment and will provide, on actuarial advice, a proposal for a number of years' credit in USS which such payment would secure. The member of staff is at liberty either to accept this or elect to deal with his or her accrued benefits as determined by the rules of his or her former scheme.

EMPLOYEE SPECIFICATION			
Post Title: Chair in Chemistry		Salary: Negotiable	
Department: Chemistry and The Stephenson Institute for Renewable Energy		Job Ref: A-571742	
Attributes	No.	Essential Criteria - Identified from CV/Supporting Statement/ References/ Interview	Desirable Criteria - Identified from CV/Supporting Statement/ References/ Interview
1 EXPERIENCE	1.1	Experience of high-level delivery of education at undergraduate and postgraduate levels Excellent track record of research in materials chemistry Electrochemistry, solid state NMR, catalysis, organic chemistry, or related areas Experience of leading a successful research group	Preparation of learning and teaching resources and delivering defined teaching elements within modules Experience of forming relationships with and working with external industrial partners
	1.2		

2. EDUCATION QUALIFICATIONS TRAINING	2.1	PhD in Chemistry	Recognised qualification in Higher Education teaching
SKILLS, GENERAL AND SPECIAL KNOWLEDGE	3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8 3.9	Established track record of high quality peer reviewed grant income Track record of academic/research leadership at an internationally- recognised level Track record of international quality peer-reviewed publication Management/ leadership skills Able to develop research networks across the university Able to develop research networks nationally Established record of supervision of research students Able to develop and deliver new taught programmes up to postgraduate level Strategic fit to the direction of the department	
4. PERSONAL ATTRIBUTES AND CIRCUMSTANCES	4.1 4.2	Commitment to research and education in the field of materials chemistry, Electrochemistry, solid state NMR, catalysis, organic chemistry, or related areas Able to work co- operatively and effectively with colleagues	

