

Greenspace Research – Renewable Energy and Built Environment Research

UHI Millennium Institute, with support from the European Regional Development Fund, HIE and Comhairle nan Eilean Siar, is investing in strategic research initiatives across the Highlands and Islands. Major expansion of Greenspace Research, the renewable energy and built environment research group based at Lews Castle College UHI in Stornoway, will enhance research capacity and support the development of two new energy research laboratories. The following positions are currently available.

READER - Energy and Built Environment Research ~ Ref: LCCGR/15 – Salary negotiable

You will be responsible for major research deliverables focused on renewable energy and the built environment. You will supervise a team of energy research experts and support the development of new state-of-the-art Energy Visualisation and Low Carbon Buildings Laboratories. You will contribute substantially to the long-term sustainability of the research programme, help bring the institution to national and international prominence in the energy field and strongly influence related teaching developments. You will have a PhD in physics, engineering or a related discipline and have a strong and growing reputation in energy and built environment research. Extensive experience of advanced simulation tools such as Trnsys and Fluent is highly desirable.

Research Associate Ref: LCCGR/12 Salary range £24,000- £30,000

The successful candidate will be a key part of a team that is developing and implementing high-performance computational software tools for modelling energy flow in the built environment. You will be responsible for development and visualisation of computational fluid dynamic solutions of thermodynamic equations with emphasis on wind, fluid and solar modelling. You will have a Ph.D. in Applied Mathematics, Physics or related engineering or science discipline, a deep knowledge of numerical analysis, scientific computing, and nonlinear systems and knowledge of numerical methods.

Software Engineer Ref: LCCGR/4 Salary range £16,000- £22,000

The successful candidate will be responsible for further research and development of advanced software tools developed by the group. You will have extensive experience of the Google SketchUp API, Ruby, Java and Hibernate software frameworks and SQL databases. You will have a 2.1 honours degree or above in a Computing Science or related discipline.

Energy Engineer Ref: LCCGR/20 Salary range £25,000- £34,000

The main function of the post is to provide energy engineering and laboratory management support for a high quality applied research programme in renewable and low carbon energy system solutions. Research topics encompass built environment, wind, solar, heat pump, and hydrogen technologies. Laboratory and field instrumentation will include thermographic, optical, and acoustic sensing systems. You will have extensive industry or engineering lab experience and will possess diverse applied skills in mechanical, electronic or building services engineering, with the ability to proceed from an engineering design phase to workshop prototype implementation and with a strong practical, hands-on focus. You will have an HND or degree in an engineering or science discipline.

Research Associate Ref: LCCGR/9 Salary range £24,000- £30,000

The successful candidate will be responsible for research in energy economics. Regional energy models, GIS models and case studies will be developed supported by tools such as Markal/Times, GreenNet and eTransport. You will have a first degree in Engineering or related science discipline, and a Ph.D with a strong emphasis on energy economics. Experience of GIS modelling is desirable.

Researchers (7 positions) Ref: LCCGR/6, LCCGR/7, LCCGR/10, LCCGR/11, LCCGR/13, LCCGR/14, LCCGR/18 Salary package up to £16,000

Candidates are sought for experimental and theoretical research posts to work on energy and built environment projects, including energy software tool development, wind and solar systems, weather datasets, energy economics, novel building materials, dynamic insulation, fuel cells and heat pumps. Research project durations of 1.5 and 3.5 years are available depending on aptitude and preference. Applicants will be able to register with UHI Millennium Institute for M.Sc or PhD degrees in the field of Sustainability Studies. You will have a 2.1 honours degree or above in a science, software, economics or geography related discipline.

For more details on the Greenspace research project and these posts go to: <http://www.lews.uhi.ac.uk>

Enquiries may be made to Dr. Neil Finlayson, Senior Researcher, Lews Castle College UHI

Tel: +44 (0) 1851 770322 Email: neil.finlayson@lews.uhi.ac.uk

UHI ACADEMIC LEADERSHIP POST

Senior Lecturer - Energy Engineering: LCCUHI/1 - Salary - £36,649

The successful candidate will provide academic leadership within the UHI faculty of Science & Technology and across the network in developing the energy engineering curriculum, fostering links with the research community and engaging with external agencies to promote UHI's place in the energy agenda. Educated to post-graduate level in a relevant discipline you will have knowledge and understanding of renewable energy developments and opportunities, experience of working in a higher education environment and experience of liaising with industry and public sector strategic partners.

Enquiries may be made to Mr David Matheson, Director of Academic Affairs, Lews Castle College UHI

Tel: +44 (0) 1851 770401 Email: david.matheson@lews.uhi.ac.uk

Closing date for applications: **9th January 2009**

Applications forms may be obtained from Valarie Ferguson, Administration Section

Tel: +44 (0) 1851 770223 Email: valarie.ferguson@lews.uhi.ac.uk