

Research Associate in Life Cycle Assessment and Life Cycle Costing

REQ211388

As part of the University's ongoing commitment to redeployment, please note that this vacancy may be withdrawn at any stage of the recruitment process if a suitable redeployee is identified.

About the School of Architecture Building and Civil Engineering

Research and teaching in the School of Architecture Building and Civil Engineering is driven by 80 academic staff, 34 technical and clerical support staff, 40 contract researchers and over 120 doctoral students. The School benefits by having academic staff from a wide variety of backgrounds, with a resulting rich diversity of perspectives.

The undergraduate programmes include Architecture, Civil Engineering, Construction Engineering Management, Commercial Management and Quantity Surveying, Architectural Engineering and Design Management, Air Transport Management, and Transport and Business Management. In all courses, the academic content is directly aligned to the needs of the industry and there is a high level of sponsorship in our portfolio of programmes. Our record of graduate employment is second to none and we have been ranked 1st or 2nd in the National Student Survey for the last 6 years. Further information is available at:

<http://www.lboro.ac.uk/departments/abce/>

In the 2014 Research Excellence Framework, the School was ranked fifth in the Architecture and Built Environment Unit of Assessment with 87% of the work judged as either "world leading" or "internationally excellent". Importantly, this was achieved whilst still returning 100% of staff; world class research pervades the School. The research environment was ranked first overall; Loughborough is the best place in which to build a career in energy research.

The School of Architecture, Building and Civil Engineering has participated in twenty seven European projects in several areas including Environment, ICT, Security, Capacities, and NMP.

The international standing of our research is exemplified by our growing portfolio of collaborations with other leading universities and research institutes worldwide. These include: the UNSW Sydney, University of California at Berkeley, MIT, Chongqing, Hong Kong, Iowa State, Oklahoma State, RMIT, Georgia State and Penn State.

We are equally proud of our collaborations with industry where we count organisations such as Willmott Dixon, *Electricite de France*, The BRE, Honeywell, Anglia Water and Biffa. Built Environment research is increasingly informing government policy through, for example, the Department for Business, Energy and Industrial Strategy and The Committee on Climate Change. For more on our research go to:

<http://www.lboro.ac.uk/departments/abce/research/>

The ICEBERG Project

The ICEBERG project, which is composed of 35 partners from 10 EU countries, aims to establish market confidence and acceptability of circular end-of-life building materials. The project has been funded by the European Commission in response to H2020-SC5 funding call on 'recycling of raw materials from buildings'.

Job Description: Life Cycle Assessment and Life Cycle Costing

Job Grade: Specialist and Supporting Academic Grade 6

Job Purpose

A full-time Grade 6 Research Associate is required to contribute to the H2020 funded ICEBERG project. the post is for a fixed term contract of 24 months. The Research Associate will be responsible for managing the day-to-day Loughborough University contributions to the ICEBERG project and conduct and coordinate research related to Life Cycle Assessment (LCA) and Life Cycle Costing (LCC) of plasterboard.

The successful candidate will be part of an interdisciplinary European team with an extensive research portfolio and world-leading expertise in resource recovery and circularity systems from end-of-life building materials.

Job Duties

Research`

- Be responsible for managing the day-to-day running of the project.
- Conduct and coordinate research related to the recovery and circularity of end-of-life building materials with a focus on LCA and LCC.
- Devise a dissemination and communication strategy for the ICEBERG project.
- Identify and involve relevant stakeholders that will benefit from the project results and can contribute to the project activities, including clustering with other circular economy projects.
- Develop quantitative and qualitative methods for data collection, validation, and dissemination in relation to the recovery and circularity of end-of-life building materials.
- Contribute to the development and monitoring a circular plasterboard implementation programme in a refurbishment building project in cooperation with Loughborough University Facilities Management, ENVA (plasterboard recyclers), and British Gypsum (plasterboard manufacturer); and in coordination with ICEBERG project partners.
- Write up regular progress reports, present outcomes to project partners and make recommendations for next steps.
- Publish research papers in high quality academic journals.
- Assist the investigators with the supervision of undergraduate, MSc and PhD students and support other researchers.

General and administrative

- Formulate detailed work plans.
- Maintain a sound and up to date knowledge of research methods relevant to the post.
- Prepare financial periodic reports and timesheets in accordance with the project activities, milestones, and deliverables.
- Maintain and enhance close relationships with project partners.
- Engage with relevant EU stakeholders.
- Package all data sets and models in a form suitable for open-access sharing.
- Contribute to project promotion and public engagement events.
- Ensure health and safety requirements are met for all activities.
- Travel to Europe to attend project meetings and related project events.

Other related duties

- Work effectively with relevant administrative, technical and research staff in the School and across the University.
- Represent the project and the University at UK and overseas events.
- Engage in training programmes in the University, which are consistent with your needs and aspirations and those of the project team.
- Carry out other specific duties as may be reasonably requested by the project leaders and that are commensurate with the nature and grade of the post.

Points to Note

The purpose of this job description is to indicate the general level of duties and responsibility of the post. The detailed duties may vary from time to time without changing the general character or level of responsibility entailed.

Special Conditions

All staff have a statutory responsibility to take reasonable care of themselves, others and the environment and to prevent harm by their acts or omissions. All staff are, therefore, required to adhere to the University's Health, Safety and Environmental Policy & Procedures.

All staff should hold a duty and commitment to observing the University's Equality & Diversity policy and procedures at all times. Duties must be carried out in accordance with relevant Equality & Diversity legislation and University policies/procedures.

Successful completion of probation will be dependent on attendance at the University's mandatory courses which include Respecting Diversity and, where appropriate, Recruitment and Selection.

Organisational Responsibility

Reports to Professor Mohamed Osmani

Person Specification

Your application will be reviewed against the essential and desirable criteria listed below. Applicants are strongly advised to explicitly state and evidence how they meet each of the essential (and desirable) criteria in their application. Stages of assessment are as follows:

- 1 – Application
- 2 – Presentation
- 3 – Interview

Essential Criteria

Area	Criteria	Stage
Experience	Current or recent work on Life Cycle Assessment and Life Cycle Costing	1,2,3
	Proven ability to manage a programme of funded research in collaboration with project partners	1,2,3
	Knowledge and experience of quantitative and qualitative research methods	1,2,3
Skills and abilities	Excellent interpersonal and organisational skills	1,2,3
	Proven ability to write project reports and make technical presentations to industrial and research groups.	1,3
	Ability to author original work destined for high quality journals	1,3
	Knowledge and understanding of competitive research funding to be able to develop proposals	1,2,3
	Knowledge of relevant Health & Safety issues	3
Training	Willingness to undertake appropriate further training and to adopt new procedures as and when required.	1,3
Qualifications	A good degree in building/construction, environmental studies, or related field.	1
	A PhD or equivalent research/industry expertise.	1
Other	Contribute to other research projects	3
	Willingness to travel in Europe	3
	Commitment to observing the University's Equal Opportunities policy at all times	3

Desirable Criteria

Area	Criteria	Stage
Experience	Research experience in Life Cycle Assessment and Life Cycle Costing of building materials	1,2,3
	Knowledge and understanding of circular economy	1,2,3
	Research experience in EU projects	1,2,3
	Securing external research funds	1,2,3
Skills and abilities	A strong publication track record in building waste recovery	1,3
	Knowledge and understanding of plasterboard recovery	1,2,3

Conditions of Service

The position is **full-time** and **fixed-term** until 30 April 2024. Salary will be within Specialist and Supporting Academic Grade 6, (£31,406 to £ 40,927 per annum), at a starting salary to be confirmed on offer of appointment. Subject to annual pay award.

The appointment will be subject to the University's normal Terms and Conditions of Employment for Grade 6 and above staff details of which can be found [here](#).

The University is committed to enabling staff to maintain a healthy work-home balance and has a number of family-friendly policies which are available at <http://www.lboro.ac.uk/services/hr/leave-absence/family-leave/>

We also offer an on-campus nursery with subsidised places, subsidised places at local holiday clubs and a childcare voucher scheme (further details are available at: <http://www.lboro.ac.uk/services/hr/a-z/childcare-information---page.html>)

In addition, the University is supportive, wherever possible, of flexible working arrangements.

We also strive to create a culture that supports equality and celebrates diversity throughout the campus. The University holds a Bronze Athena SWAN award which recognises the importance of support for women at all stages of their academic career. For further information on Athena SWAN see <http://www.lboro.ac.uk/services/hr/athena-swan/>

Applications

The closing date for receipt of applications is 31 January 2022.