

Research Fellow

Centre for Net Zero High Density Buildings

Equality Diversity & Inclusion (EDI), Skills and Training



Role Description

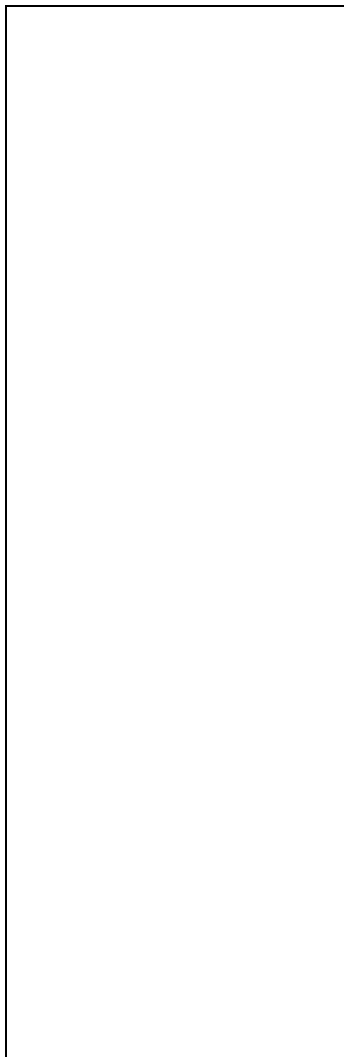
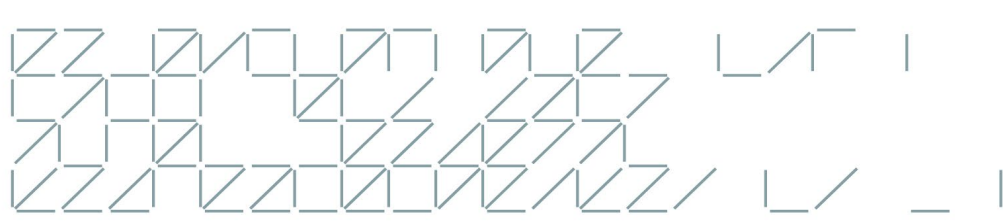
GRADE Grade 5
LOCATION Merchiston Campus Edinburgh
LINE MANAGER Professor Robert Hairstans

Role Summary

The Research Fellow will provide dedicated research and development support in EDI, Skills and Education for the Centre for Net Zero High Density Buildings (CeNZ-HighDB). CeNZ-HighDB is UKRI funded, hosted by the University of Edinburgh, and Edinburgh Napier University is a strategic collaborating partner leading on this thematic area of research and development.

The CeNZ-HighDB will develop new low carbon construction products, processes, energy systems, archetype solutions and innovative approaches to accelerate the development of net zero solutions for high density housing, buildings and community districts. This will lead to faster, optimised, greener and overall more holistic system-based solutions to enable net zero delivery for high density buildings in cities and towns, supporting the green economy and future jobs growth.

This strategic research position will play a pivotal role in working with employers, regional skills academies and colleges to accelerate future deployment of innovative product and technology solutions co-developed with industry partners by the CeNZ-HighDB. The Centre’s partner networks



will provide established pathways to roll out the new skills training courses developed accelerating green economy growth pan-UK.

The Research Fellow will work closely with the CeNZ-HighDB project team from across the partner Universities (University of Edinburgh, University of Strathclyde, University of Glasgow and the University of West of Scotland) and Built Environment – Smarter Transformation and engage with the industry and external partners to undertake the necessary research and development activities to establish net zero carbon skills pathways and educational content provision for sustainable built environment delivery.

Bid co-development with industry and civic partners identified the importance of inclusive engagement supporting ‘a just transition’ with diverse communities across the city and town locations where pilot and prototype projects will be undertaken. The underpinning work of the Research Fellow will play an important role in accelerating future upskilling and job outcomes acting as a key link person with major regional and national skills organisations and networks enabling net zero built environment and green economy outcomes.

The Research Fellow will have excellent coordination and communication skills, hold a Masters in a relevant subject matter.

Line Management Responsibility for:

This role does not have any line management responsibilities currently.

Main Duties and Responsibilities

Teaching and Learning Support

- Could be expected to be involved in the assessment of student knowledge and supervision of undergraduate projects.
- Could be expected to assist in the development of student research skills at undergraduate or postgraduate level.

Research and Scholarship

- Define research objectives and questions
- Develop proposals for own or joint research, with the assistance of a mentor if required.
- Contribute to other's proposals for securing funds.
- Conduct individual and collaborative research projects.
- Write up research work for peer-reviewed publication.
- Continually update knowledge and understanding in field or specialism.
- Review and synthesise the outcomes of research studies.
- Translate knowledge of advances in the subject area into research activity.
- Disseminate results to academic/research audiences

Communication

- Deal with routine communication using a range of media.
- Communicate complex information, orally, in writing and / or electronically.
- Preparing proposals and applications to external bodies, eg for funding and contractual purposes.
- Communicate material of a specialist or highly technical nature within forum specific to the subject.

Liaison and networking

- Liaise with colleagues and students.
- Build internal contacts and participate in internal networks for the exchange of information and to form relationships for future collaboration.
- Join external networks to share information and identify potential sources of funds.

Managing people

- Manage personal and own-project research and administrative activities, with guidance if required.

Teamwork

- Work with colleagues on joint projects, coordinating as required
- Collaborate with academic colleagues on areas of shared research interest.

- Attend and contribute to relevant meetings.

Pastoral care

- Show consideration to others.

Initiative, problem-solving and decision-making

- Use new research techniques and methods.
- Use initiative and creativity to identify areas for research, develop new research methods and extend the research portfolio.
- Use creativity to analyse and interpret research data and draw conclusions on the outcomes.
- Contribute to collaborative decision making with colleagues in areas of research.

Planning and managing resources

- Use research resources, laboratories and workshops as appropriate.
- Plan and manage own research activity in collaboration with others.

Sensory, physical and emotional demands

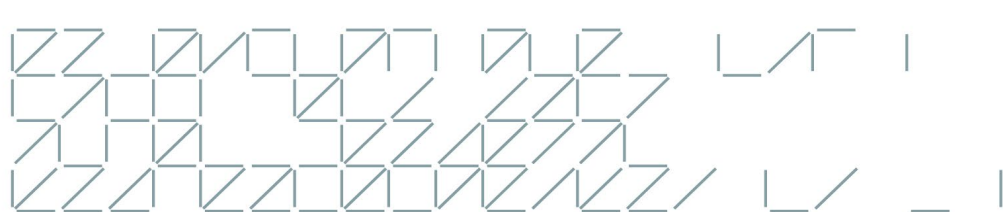
- Sensory and physical demands will vary from relatively light to a high level depending on the discipline and the type of work
- Carry out tasks that require the learning of certain skills.
- Balance with help the competing pressures of research consulting practice and administrative demands and deadlines.

Work environment

- Is required to be aware of the risks in the work environment and their potential impact on their own work and that of others.

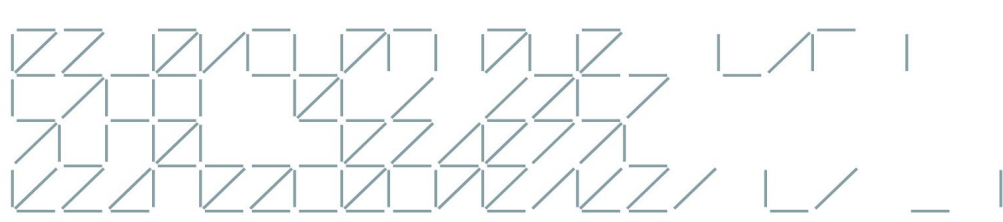
Expertise

- Possess sufficient breadth or depth of specialist knowledge in the discipline and of research methods and techniques (for example, having obtained a PhD degree or equivalent experience) to work within established research projects or programmes or to act as lead researcher or consultant in projects.
- Engage in continuous professional development.
- Understand equal opportunity issues as they may impact on areas of research content.



PERSON SPECIFICATION

	ESSENTIAL	DESIRABLE
Education / Qualifications		
<ul style="list-style-type: none"> A Master's degree with significant relevant experience in construction or the built environment 	✓	
<ul style="list-style-type: none"> PhD in a relevant subject matter or have equivalent professional experience and qualifications 		✓
<ul style="list-style-type: none"> Chartered member of relevant Professional Body (CIOB, CIAT, RIBA etc) 		✓
<ul style="list-style-type: none"> Fellow of the Higher Education Academy 		✓
Skills / Experience		
<ul style="list-style-type: none"> Proven experience of working in advice, guidance and developing of skills in a construction, built environment or engineering context, and EDI support. 	✓	
<ul style="list-style-type: none"> Research and publication skills 	✓	
<ul style="list-style-type: none"> Current knowledge and understanding of policy and strategy in further and higher education, training, skills and employability. 	✓	
<ul style="list-style-type: none"> Proven experience in operational planning with organisation, EDI and ethic skills to ensure successful development and delivery of educational programmes and services. 	✓	
<ul style="list-style-type: none"> Ability to work independently 	✓	
<ul style="list-style-type: none"> Self-motivated 	✓	
<ul style="list-style-type: none"> Organised 	✓	
<ul style="list-style-type: none"> Excellent communication 	✓	
<ul style="list-style-type: none"> Engagement in skills 	✓	
<ul style="list-style-type: none"> Construction site experience 		✓
<ul style="list-style-type: none"> Construction Skills Certification Scheme (CSCS) 		✓



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- Drivers licence

