

## THE POST

<b>College:</b>	<b>Business School</b>
<b>Post:</b>	<b>Postdoctoral Research Associate</b>
<b>Reference No:</b>	<b>P60049</b>
<b>Grade:</b>	<b>E</b>
<b>Reporting To:</b>	<b>Prof Peter Hopkinson</b>

The College wishes to recruit a full time Postdoctoral Research Associate/ Fellow to support the work of Prof Peter Hopkinson. This EPSRC grant funded post on the "**REBUILD: REgenerative BUILDings and products for a circular economy**" project is available immediately in the first instance until 31<sup>st</sup> January 2020, with a possibility of extension of up to 1 year, dependent on funding. The post will be based in Cornwall on the Penryn campus.

### Job Description

#### Main purpose of the job:

*To conduct research on the circular economy and valuing the recovery and re-use of building products within new commercial and housing construction systems. The main tasks will be data collection, analysis and visualisation on building product stocks and flows within end of service life buildings and model the local and regional economic, environmental and social outcomes from the remanufacture and re-use of product within new modular buildings designed for disassembly and future deconstruction.*

#### Main duties and accountabilities:

1. To undertake research as appropriate to the field of study including:
  - Writing up research work for publication; contributing to journal publications, research reports and dissemination of findings using media appropriate to the discipline.
  - Developing research objectives and proposals for own or joint research;
  - Making presentations at national and international conferences and similar events;
  - Dealing with problems which may affect the achievement of research objectives and deadlines;
  - Analysing and interpreting the results of own research and generating original ideas based on outcomes;
  - Using research techniques and methods, to deliver the core tasks of the project work packages including system modelling, material flow and value stream mapping
  - Using initiative and creativity to identify areas for research, developing new research methods and extending the research portfolio;
  - Using creativity to analyse and interpret research data and draw conclusions on the outcomes, including applying knowledge acquired from research to external activities and industry impact
2. May be required to contribute to teaching and to be involved in the assessment of student knowledge including assisting in the supervision of student projects and in the development of student research skills.

3. To work in collaboration with colleagues as appropriate to the field of study including:
  - Contributing to collaborative decision making within the research group;
  - Contributing to the production of collaborative research reports and publications.
  - Preparing papers and presenting information on research progress and outcomes to bodies supervising research, including with key collaborating bodies in the construction sector to address the technological forecasting and manufacturing innovation elements of the project
  - Liaise with stakeholders in the UK building and construction sector to negotiate access to data and management teams
4. To communicate complex information, orally, in writing and electronically, for example communicate complex and conceptual ideas to senior managers, industry partners and external audiences with limited knowledge and make presentations at national and international conferences and workshops
5. To prepare proposals and applications to external bodies, e.g. for funding and contractual purposes
6. To contribute to the planning of research projects, co-ordination and implementation research programme activities including: monitoring the project progress against milestones.
7. To use research resources, laboratories and workshops as appropriate and to take responsibility for reducing hazards and for the health and safety of others. Where appropriate, will also be responsible for conducting risk assessments.
8. To manage the appropriate use of research resources and budget.
9. To engage in continuous professional development and to be responsible for continually updating knowledge and understanding in field of study or specialism and for developing skills.

You will be responsible on a day to day basis to Professor Peter Hopkinson and colleagues in the Business School at Penryn. The case study projects are based in the North of England hence some traveling and working w is expected.

This job description summarises the main duties and accountabilities of the post and is not comprehensive: the post-holder may be required to undertake other duties of similar level and responsibility. Please visit the Human Resources website to view the Research Fellow role profiles.

### **Person Specification**

<b>Competency</b>	<b>Essential</b>	<b>Desirable</b>
Attainments/Qualifications	PhD (or near completion) in a relevant field of study (building and construction, value stream mapping, system modelling)	Be a recognised authority in the subject area
Skills and Understanding	Possess sufficient specialist knowledge in the discipline to deliver research programme and methodologies.  Evidence of research activity and published research in quality publications	Ability to learn new methods and techniques including GIS and LCA.
Prior Experience	Experience in systems modelling software (e.g ANYLOGIC, STELLAR or equivalent)  Experience of externally funded	Experience in GIS, LCA or equivalent  Experience of supervision of students in a research

	research projects	environment (e.g. undergraduate projects, work placement students)
Behavioural Characteristics	<p>Excellent written and verbal communication skills</p> <p>Ability to communicate complex and conceptual information effectively to mixed groups with diverse levels of understanding</p> <p>Evidence of ability to work with diverse groups including senior managers and externally to complete research projects and advance thinking</p> <p>Ability to balance the pressure of research and administrative workload to strict and often conflicting deadlines</p> <p>Willingness to engage with and contribute actively to divisional activity at all levels</p> <p>Commitment to engagement in positive working relationships</p> <p>Commitment to fostering a positive working and learning environment</p> <p>Understanding of the University's commitment to Equality and Diversity</p> <p>Committed to continuing personal/professional development.</p>	Able to identify sources of funding, generate income and build relationships for future projects
Circumstances	Willingness to travel abroad, with occasional working at University of Manchester and Bradford	

### **Informal Enquiries**

Before submitting an application you may wish to discuss the post further by contacting Professor. Peter Hopkinson, telephone (07917 158998) or email [p.hopkinson@exeter.ac.uk](mailto:p.hopkinson@exeter.ac.uk).

### **Terms & Conditions**

Our Terms and Conditions of Employment can be viewed [here](#).

### **Further Information**

Please see our [website](#) for further information on working at the University of Exeter.

## THE POST

<b>College:</b>	<b>Business School</b>
<b>Post:</b>	<b>Postdoctoral Research Fellow</b>
<b>Reference No:</b>	<b>P60049</b>
<b>Grade:</b>	<b>F</b>
<b>Reporting To:</b>	<b>Prof Peter Hopkinson</b>

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#### Main duties and accountabilities:

To undertake research as appropriate to the field of study. The responsibilities may include all or some of the following:

- Acting as principal investigator on research projects;
- Developing research objectives, projects and proposals;
- Conducting individual or collaborative research projects; to deliver the core tasks of the project work packages including system modelling, material flow and value stream mapping
- Identifying sources of funding and contributing to the process of securing funds;
- Extending, transforming and applying knowledge acquired from scholarship to research and appropriate external activities;
- Writing or contributing to publications or disseminating research findings using media appropriate to the discipline;
- Making presentations at conferences or exhibiting work in other appropriate events;
- Assessing, interpreting and evaluating outcomes of research;
- Developing new concepts and ideas to extend intellectual understanding; including systematically analysing and and updating research literature and where necessary
- Resolving problems of meeting research objectives and deadlines;
- Developing ideas for generating income and promoting research area;
- Developing ideas for application of research outcomes;
- Deciding on /following research programmes and methodologies, often in collaboration with colleagues and sometimes subject to the approval of the head of the research programme on fundamental issues.

2. May be required to contribute to teaching and learning programmes in the School and to supervise postgraduate research students.
3. To act as research team leader including:
  - Mentoring colleagues with less experience and advising on their professional development;
  - Coaching and supporting colleagues in developing their research techniques;
  - Supervising the work of others, for example in research teams or projects in support of overall project deliverables
  - Developing productive working relationships with other members of staff; including working with key collaborating bodies in the construction sector to address the technological forecasting and manufacturing innovation elements of the project
  - Co-ordinating the work of colleagues to ensure equitable access to resources and facilities;
  - Dealing with standard problems and help colleagues to resolve their concerns about progress in research.
4. To routinely communicate complex and conceptual ideas to those with limited knowledge, such as senior managers, industry partners and external audiences, as well as to peers using high level skills and a range of media and to present the results of scientific research to sponsors and at conferences, including liaising with senior executives and stakeholders in the UK building and construction sector to negotiate access to data and management teams.
5. As determined by the nature of the project and at the direction of the PI, to plan, co-ordinate and implement research programme activity including:
  - Managing the use of research resources and ensuring that effective use is made of them;
  - Monitoring and reporting on the use of research budgets;
  - monitoring the project progress against milestones
  - Helping to plan and implement commercial and consultancy activities; including extending and apply knowledge acquired from the research to external activities and industry impact
  - Where appropriate, to plan and manage own consultancy assignments.

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Skills and Understanding	Possess sufficient specialist knowledge in the discipline to deliver research programme and methodologies.  Record of outputs in high quality publications	Ability to learn new methods and techniques including GIS and LCA.
Prior Experience	Experience in systems modelling software (e.g ANYLOGIC,	Experience in GIS, LCA or equivalent

	<p>STELLAR or equivalent)</p> <p>Experience of externally funded research projects</p>	<p>Experience of supervision of students in a research environment (e.g. undergraduate projects, work placement students)</p>
Behavioural Characteristics	<p>Excellent written and verbal communication skills</p> <p>Ability to communicate complex and conceptual information effectively to mixed groups with diverse levels of understanding</p> <p>Evidence of ability to work with diverse groups including senior managers and externally to complete research projects and advance thinking</p> <p>Ability to balance the pressure of research and administrative workload to strict and often conflicting deadlines</p> <p>Willingness to engage with and contribute actively to divisional activity at all levels</p> <p>Commitment to engagement in positive working relationships</p> <p>Commitment to fostering a positive working and learning environment</p> <p>Understanding of the University's commitment to Equality and Diversity</p> <p>Committed to continuing personal/professional development.</p>	<p>Able to identify sources of funding, generate income and build relationships for future projects</p>
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