

# Researcher, Zero Carbon Neighbourhood Design (KTP Associate)

Department	Architecture ( <a href="http://www.strath.ac.uk/engineering/architecture/">www.strath.ac.uk/engineering/architecture/</a> )		
Faculty	Faculty of Engineering ( <a href="http://www.strath.ac.uk/engineering/">www.strath.ac.uk/engineering/</a> )		
Staff Category	KTP	Reference No	424745
Reports To	Prof. Tim Sharpe (Knowledge Base Supervisor) & Jonathan McQuillan (Business Partner Supervisor)	Grade:	RS79
Salary Range:	£28,000 – 33,000 plus £5k training and development	Contract Type:	Fixed Term (30 months)
FTE:	1 FTE	Closing Date	Sunday, 13 February 2022

## Job Advert

The Department of Architecture at Strathclyde, in partnership with Anderson Bell Christie (ABC) Architects is seeking to appoint a Knowledge Transfer Partnership (KTP) Associate to develop skills and expertise in the design of Zero Carbon Neighbourhoods.

ABC provide architectural services predominantly on public sector projects. Most revenue generating projects are in the social housing sector. Our strategic aim is to create opportunities for improvement and challenge convention within the construction sector, by connecting our sense of design responsibility to communities with the societal need to prevent climate change.

The Department of Architecture at Strathclyde is ranked No.1 in Scotland and 5<sup>th</sup> in the UK by the Complete University Guide (2020) and is part of one of the largest and highest-ranking faculties of engineering in the UK. Our close links with the city's creative design, construction, and engineering industries enhance students' career prospects by providing opportunities to network and engage with professional practitioners, researchers, and clients.

ABC have identified an opportunity to address a gap in the social housing market, related to the current void between government policy and delivery of net zero carbon targets. Client demand has demonstrated the need for holistic neighbourhood solutions to address carbon policy commitments. We have developed a net zero carbon strategy for new dwellings but recognise that we would enhance our offering by evolving the strategy to include community carbon measurements; offsetting carbon emissions locally using place-based measures linked to community consultation.

The key objective of the KTP is to embed knowledge and capability in the emerging principles and processes for zero carbon design for Zero Carbon Neighbourhoods (ZCN), creating a place-based community-oriented solution to deliver holistic zero carbon living within the social housing sector.

The KTP Associate will be based at Anderson Bell Christie's premises in Glasgow, working under the daily supervision of Company Supervisor (CS), and will be fully integrated within the company, supported by the CS and other company personnel, whilst undertaking research and knowledge embedding activities.

We are seeking a talented and ambitious researcher, ideally with an Architecture/urban design degree background, with technical and construction skills, but also knowledge of the wider policy and legislation drivers. The Associate will work with ABC and their clients to develop robust data driven design process for holistic net zero carbon communities that can be incorporated into a ZCN tool and platform, that is easy to use, accessible and consistent.

The project is part of the Knowledge Transfer Partnership (KTP) programme that aims to help businesses improve their competitiveness and productivity through better use of knowledge, technology and skills that reside within the UK knowledge base. Successful Knowledge Transfer Partnership projects are funded by UK Research and Innovation through Innovate UK and are part of the government's Industrial Strategy. To find out how KTP works and the vital role you will play if you successfully secure a KTP Associate position please visit: [www.ktpws.org.uk](http://www.ktpws.org.uk). There are over 200 vacancies currently available at [www.ktp-uk.org/graduates](http://www.ktp-uk.org/graduates) or search 'KTP jobs'.

## Job Description

### Brief Outline of Job:

To pursue and establish an independent and high quality research programme, including securing research contracts and funding; to disseminate research results via publications in peer reviewed journals; where appropriate, to manage a research team (staff and students); to engage as appropriate in relevant teaching, professional and knowledge exchange activities.

### Main Activities/Responsibilities:

1.	Developing knowledge exchange objectives for the Knowledge Transfer Partnership, technology and product development project and play a leading role in achieving these with support of KTP supervisors.
2.	Mapping and developing tools and processes for Low Carbon Neighbourhood design
3.	Planning and managing own workload with guidance from KTP supervisory team.
4.	Participate in and develop external networks to foster research collaborations, to inform the development of research objectives and to identify potential sources of funding and income.
5.	Develop knowledge exchange activities by, for example, establishing research links with industry and influencing public policy and the professions.
6.	Communicating with stakeholders through a variety of forums such as meetings and presentations using appropriate media, such as reports, to inform them of the progress of improvement initiatives.
7.	Collaborating with University colleagues to ensure that KTP outputs inform Faculty research and teaching
8.	Engage in continuous professional development.
9.	Engage in continuous professional development.

## Person Specification

### Educational and/or Professional Qualifications

(E=Essential, i.e. a candidate must meet all essential criteria to be considered for selection, D=Desirable)

E1 Hons level qualifications, MSc preferred in a related discipline (or, exceptionally, equivalent professional experience)

D1 Membership of relevant Chartered/professional bodies (including Higher Education Academy).

### Experience

E2 Experience of housing design, planning and urban design and construction in the UK

E3 Knowledge of existing and emerging Government policy and regulation agendas

E4 Knowledge of low and zero carbon design advantageous.

D2 Knowledge of building science, energy and environmental analysis including calculation tools and methods and processes for carbon reduction.

### Job Related Skills and Achievements

E5 Ability to work under pressure and to tight deadlines.

E6 Experience of housing design, planning and urban design and construction in the UK

E7 Ability to work well across diverse teams within design, planning and construction.

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E8 Strong project management skills, ability to organize and prioritise tasks.

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D3 Highly computer literate, CAD/BIM skills.

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### **Personal Attributes**

E9 Excellent interpersonal and communication skills, with the ability to listen, engage and persuade, and to present complex information in an accessible way to a range of audiences, including architects, client organisations, users and communities.

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E10 Self-motivated and ability to use own initiative..

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## **Application Procedure**

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Applicants are required to complete an application form including the name of three referees who will be contacted without further permission, unless you indicate that you would prefer otherwise. Applicants should also submit a Curriculum Vitae and a covering letter detailing the knowledge, skills and experience you think make you the right candidate for the job. Applicants should also complete the Equal Opportunities Monitoring Form.

## **Other Information**

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Further information on the application process and working at Strathclyde can be found on our website (<http://www.strath.ac.uk/hr/workforum>).

Informal enquiries about the post can be directed to Prof Tim Sharpe, Head of Architecture (0141 548 3014/[tim.sharpe@strath.ac.uk](mailto:tim.sharpe@strath.ac.uk)).

### **Conditions of Employment**

Conditions of employment relating to the KTP Associate staff category can be found at: [Conditions of Employment](#).

### **Rewards and Benefits**

Our staff have access to a wide range of outstanding benefits that include financial rewards, family friendly and wellbeing benefits and career development opportunities, details of which can be found [here](#).

### **Probation**

Where applicable, the successful applicant will be required to serve a 6 month probationary period.

### **Pension**

The successful applicant will be eligible to join the Universities' Superannuation Scheme. Further information regarding this scheme is available from [Payroll and Pensions](#).

### **Relocation**

Where applicable, the University offers a relocation package to support new employees who meet the eligibility criteria. The relocation package is offered as a contribution towards costs incurred, and is designed to be flexible, allowing staff to use the financial support available in the way that will be most helpful to them. Further details are outlined in the Relocation Policy.

### **Equality and Diversity**

We value diversity and welcome applications from all sections of the community.

The University currently holds a Bronze Athena SWAN award, recognising our commitment to advancing gender equality in academia across all academic disciplines and professional and support functions.

### **University Values**

The University's Values capture what we're all about: who we are, what we believe in and what we stand for. [Our Values](#) have been derived from how we act and how we expect to be treated as part of Strathclyde.

