



Job title	Research Associate/Fellow in Research and Development of Domestic Thermal Energy Storage: Advanced Distributed Storage for Grid Benefits (ADSorB) (Title will be 'Research Associate' where an appointment is made before PhD is completed)	Job family and level	Research and Teaching Level 4 (Appointment will be Level 4 Career training grade where an appointment is made before PhD has been completed)
School/ Department	Faculty of Engineering	Location	Dept. of Architecture & Built Environment, University Park

Purpose of role

The Advanced Distributed Storage for grid Benefits (ADSorB) project will deploy and demonstrate a series of innovative, smart, and interoperable thermal energy stores to reduce domestic energy consumption and carbon emissions. The stores will be installed in the Universities 'Creative Energy Homes' living-lab test facilities. The role holder will manage the installation and performance monitoring of the stores to assess their capabilities in providing longer duration energy storage for heating and hot water demands in a way that significantly enhances UK energy flexibility and supports wider energy network resilience.

	Main responsibilities (Primary accountabilities and responsibilities expected to fulfil the role)	% time per year
1	In collaboration with the team, refine the work framework, develop the project and undertake associated research tasks.	25%
2	Upgrade and manage the data monitoring platforms within the test houses.	25%
3	Upgrade and manage the installation of the appropriate heating systems and the thermal stores provided by project partners.	15%
4	Engage in project coordination and writing up of reports.	15%
5	Attend meetings as required and take ownership of tasks.	10%
6	Disseminate knowledge through exchange, presentations, public engagement activity and publications.	10%

Person specification

	Essential	Desirable
Skills and personal competences	<ul style="list-style-type: none"> ▪ Good data analytical and problem-solving skills ▪ Clear written and verbal communication ▪ Professional standard report writing and presentation skills ▪ Able to establish credibility and works cooperatively with others and the ability to work as part of a multidisciplinary team within the group and within the project ▪ Able to build strong alliances with colleagues and stakeholders, develop network of contacts and builds trust ▪ Able to plan, coordinate and monitor the progress of work against project milestones and/or agreed standards of work ▪ Flexible approach to problem solving ▪ Self-motivated, enthusiastic and drive ▪ Commitment to observing Equality, Diversity and Inclusion policies at all times ▪ Commitment to maintain confidentiality at all times ▪ Commitment to observing Health & Safety regulations and best practice 	<ul style="list-style-type: none"> ▪ Demonstrable commitment to continuing professional development ▪ Relevant and appropriate (for the experience level) list of academic publications ▪ Willingness to travel ▪ Expertise in monitoring and evaluation of building services systems
Knowledge and experience	<ul style="list-style-type: none"> ▪ Knowledge, skills and experience on energy systems performance monitoring, data acquisition, data handling, and undertaking research in energy and building ▪ Experience in the research fields related to energy and buildings ▪ Demonstrable ability to undertake independent research ▪ A positive attitude towards collaboration and multidisciplinary work 	<ul style="list-style-type: none"> ▪ Expertise in data acquisition, data handling and system performance evaluation ▪ Relevant industry experience (including work placements) in an engineering, science, or energy environment and/or within multidisciplinary teams ▪ Awareness and understanding of commercial drivers ▪ Ability to translate research findings into relevant commercial context ▪ Willingness to undertake appropriate further training and to adopt new procedures as and when required
Qualifications, certification and training	<ul style="list-style-type: none"> ▪ Degree in a science/engineering discipline ▪ PhD or PhD in thesis pending period, in a relevant science/engineering 	<ul style="list-style-type: none"> ▪ Other postgraduate degree in any related fields of sustainable energy technologies

(relevant to role)	discipline, such as sustainable energy, sustainable building technologies, thermal energy storage, building services engineering	<ul style="list-style-type: none"> ▪ Other training in quantitative methods of research
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The University strongly endorses Athena SWAN principles, with commitment from all levels of the organisation in furthering women's careers. It is our mission to ensure equal opportunity, best working practices and fair policies for all.

Expectations and behaviours

The University has developed a clear set of core expectations and behaviours that our people should be demonstrating in their work, and as ambassadors of the University's strategy, vision and values. The following are essential to the role:

- Valuing people** Is always equitable and fair and works with integrity. Proactively looks for ways to develop the team and is comfortable providing clarity by explaining the rationale behind decisions.
- Taking ownership** Is highly self-aware, looking for ways to improve, both taking on board and offering constructive feedback. Inspires others to take accountability for their own areas.
- Forward thinking** Driven to question the status quo and explore new ideas, supporting the team to "lead the way" in terms of know-how and learning.
- Professional pride** Sets the bar high with quality systems and control measures in place. Demands high standards of others identifying and addressing any gaps to enhance the overall performance.
- Always inclusive** Ensures accessibility to the wider community, actively encouraging inclusion and seeking to involve others. Ensures others always consider the wider context when sharing information making full use of networks and connections.

Key relationships with others

