

Job Title:	Low Carbon Building & Energy Systems Design Engineer
Hours of work:	35 hours per week
Contract:	Fixed term to 31 March 2023
Salary:	Competitive
Location:	Berkeley - Gloucestershire

About the project:	<p>The Active Building Centre is a centre of excellence working to accelerate the UK's drive towards net-zero carbon by transforming the way buildings are powered and heated.</p> <p>Founded in 2018 as part of the UK Government's Transforming Construction Challenge, the Active Building Centre is a government backed Research and Technology Organisation (RTO) who are collaborating with industrial and academic partners to mobilise and deliver applied research, product development, commercial engagement and the realisation of a comprehensive demonstrator portfolio.</p> <p>The Active Building Centre sets the standard for the clean, efficient and climate-friendly communities of tomorrow by designing prototype buildings that act as proof of concept and a template for the construction industry, as well as by advising housebuilders and homeowners on new-builds and retrofitting.</p> <p>Our research promotes sustainable construction, shapes future living, improves building performance, alleviates fuel poverty and helps decarbonise the UK's energy supply.</p> <p>Our mission is to identify and integrate the best materials, design and equipment for building homes, workplaces and communities that actively combat climate change, rather than fuelling it.</p> <p>We are developing an ambitious portfolio of advanced multi-sector demonstrators which are sustainable, perform better, are more comfortable and will significantly contribute to decarbonisation.</p> <p>As part of a highly skilled team looking to transform the energy and construction industry and drive policy change, you will be open to new ideas, bring fresh thinking, and be ready to play your part in delivering the case for Active Buildings.</p>
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<p>About the role:</p>	<p>The Active Building Centre Ltd. is seeking a Buildings & Energy Systems Design Engineer experienced in low carbon technologies.</p> <p>The role is required in order to continue with a number of complex and high-profile building and energy engineering projects across a wide variety of sectors, with some of the industry's most innovative solution providers.</p> <p>As the Building and Energy Systems Engineering lead, you will be responsible for the planning, design, monitoring, and inspection of systems within our buildings and those we have influenced.</p> <p>The successful candidate will bring together a passion for energy efficient design and insight from a delivery-focussed career to manage and support our evaluation and development activity. This activity is designed to showcase, evaluate, and evidence innovation from across ABCs programme; including low carbon technology, energy management & trading, and delivery & operational models.</p> <p>With your understanding of the low carbon built environment landscape, you will identify opportunities for Active buildings in the emerging energy aggregation and demand side response markets.</p>
<p>Key Responsibilities:</p>	<p>You will be responsible for:</p> <p>Leading the selection, integration and deployment of novel technologies within our engineering designs to showcase cutting edge opportunities including BEMS, IoT, Monitoring & Control, thermal/electrical storage, V2X, etc.</p> <p>Producing robust methodologies and specifications that are both achievable and market-leading, while ensuring the appropriate regulations and standards are considered, as could be expected from a National Centre of Excellence.</p> <p>The utilisation of technical expertise to advise on building and energy systems solutions, especially in relation to particular building archetypes, usage profiles, and occupancy.</p> <p>To analyse, use and interpret data from our demonstrators and innovation work to identify and specify methods for future development of new and retrofit Active Building techniques.</p>

	<p>Through effective communication across internal departments, ensure that the latest technical innovations in energy and transport throughout the built environment are successfully incorporated into our portfolio of work.</p> <p>This role would also be instrumental in feeding relevant knowledge into our Solutions Portfolio, and Project Advisory & Bid support functions.</p>
<p>General Duties:</p>	<ol style="list-style-type: none"> 1. Promote equality and diversity in working practices and maintain positive, inclusive working relationships. 2. Lead on the continual improvement of health and safety performance through a good understanding of the risk profile and the development of a positive health and safety culture. 3. Ensure that risk management is an integral part of any decision-making process. 4. Any other duties as directed by the CEO of Active Building Centre Ltd (or their nominated representative).
<p>Person specification:</p>	<p><u>Essential criteria:</u></p> <p>Qualifications & Experience:</p> <p>Graduate in Mechanical/Electrical/Building services/Architectural/Engineering</p> <p>Significant experience (5yrs +) in industry delivering clients requirements on projects</p> <p>Commercial/private Sector experience at consultant/ project/ management level within an energy or construction focussed organisation</p> <p>Demonstrable experience in the Design/Specification/Delivery of an Active Building (or equivalent), to include awareness of Electrical/ Thermal storage, Heat pumps, controls engineering, IOT, Comms etc.</p> <p>Knowledge and Skills:</p> <p>Applied technical competencies in Systems Engineering, IT, Monitoring and BMS.</p>

	<p>General understanding of Low Voltage / High Voltage design, electric vehicle integration, Low and Zero Carbon technologies, Metering infrastructure, etc.</p> <p>Knowledge of regulations and accreditation schemes (e.g. Part L, BREEAM, CSH etc.)</p> <p>Demonstrable ability to work within BIM environment (Revit preferred)</p> <p>Knowledge of RIBA Plan of Work/BSRIA Building Services Design Framework process</p> <p>Excellent organisational skills, the ability to manage a variety of tasks simultaneously, and to organise and prioritise own work and that of others in order to meet project milestones</p> <p>Excellent communication skills with clear evidence of effective presentation skills, CAD, report-writing skills, and the ability to converse authoritatively and persuasively with a range of stakeholders at all levels</p> <p><u>Desirable criteria:</u></p> <p>PhD /MSc in sustainable buildings/ sustainability and passive housing/ Sustainable Construction and the build environment.</p> <p>Corporate membership of the Chartered Institute of Building Services Engineers (CIBSE).</p> <p>An understanding of industry-standard building physics modelling packages such as IES VE, Designbuilder, etc.</p>
<p>Equality & Diversity:</p>	<p>ABC is fully committed to providing equal opportunities for all job applicants by supporting and promoting equality and diversity in all of its practises and activities.</p> <p>We aim to establish an inclusive environment and welcome applications from the following protected characteristics: age, disability, gender reassignment, marriage and civil partnership,</p>

	pregnancy and maternity, race (including colour, nationality, ethnic and national origin), religion or belief, sex and sexual orientation.
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