

Job Title:	Data Infrastructure Engineer
Hours of work:	35 hours a week (full-time)
Contract:	Fixed Term (until 30.09.2022)
Salary:	Competitive
Location:	Gloucestershire (with possible UK travel)

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 Data Infrastructure Engineer to join a growing Data Engineering, Analytics and IT infrastructure support function within the renewable energy sector.</p> <p>The successful candidate will work closely with the Controls and IoT Engineering and Data Analytics Functions to develop the architecture and then build the Data/IT infrastructure to support seamless integration between Devices and Cloud.</p> <p>You will also be responsible for the day-to-day maintenance and account management of the physical and cloud data infrastructure.</p>
<p>Key Responsibilities:</p>	<p>You will be responsible for:</p> <ol style="list-style-type: none"> 1. Managing Data Ingestion, by connecting data from diverse sources to a central IoT Platform, SQL Database and AWS Cloud platform or similar. 2. Developing and deploying suitable manipulation codes to extract data from MQTT, Rest API/JSON files to MySQL/MariaDB/NoSQL or appropriate databases. 3. Supporting Integration with Frameworks such as Apache Spark for real time processing of data. 4. Administering Onsite and Cloud Storage of data, addressing concerns of data quality, availability, user account administration and security. 5. Overseeing cybersecurity reviews and implementing recommendations.
<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 CTO of Active Building Centre Ltd (or their nominated representative).

<p>Person specification:</p>	<p><u>Essential criteria:</u></p> <p>Qualifications & Experience: Educated to Degree Level in a relevant Discipline with a minimum of 2 years' experience setting up similar infrastructures.</p> <p>A Level 4/5 IT Diploma with a demonstratable IT background will be considered.</p> <p>Knowledge and Skills:</p> <ol style="list-style-type: none"> 1. Experienced in setting up Virtual Machines and associated licensing, Active Directory (Microsoft and Cloud) and Networking support. 2. Proficient in SQL, AWS, Active Directory Setup and User Account Management. 3. Skilled in Python Coding and data extraction from MQTT, Rest API, JSON payloads. <p><u>Desirable criteria:</u></p> <p>Knowledge of building data dashboards using Tableau or Grafana.</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, pregnancy and maternity, race (including colour, nationality, ethnic and national origin), religion or belief, sex and sexual orientation.</p>