



Job Title:	Refrigeration/Thermal Design Engineer
Hours of work:	35 hours per week (this is a full-time post)
Contract:	This is a Fixed Term Position until 30 September 2022 (with the potential to extend)
Salary:	Competitive
Location:	Located in Gloucester

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>
---------------------------	---

<p>About the role:</p>	<p>ABC is looking for an experienced Refrigeration/Thermal Design Engineer to join the engineering team.</p> <p>You will be degree qualified in an Engineering Discipline with experience in the Science of Thermal Engineering (an MSc is highly desirable).</p> <p>We are looking for self-motivated, proactive & professional engineers that are ready to be part of something incredible!</p> <p>You will report into the Chief Technology Officer (CTO).</p>
<p>Key Responsibilities:</p>	<ul style="list-style-type: none"> • Design of HVAC / refrigeration systems and Heat Pumps. • Design & analysis of heat exchangers. • To provide thermal design and analysis solutions in support of programmes and technologies. • Identification of new and novel solutions to technical problems. • Creating and validating software models of different refrigeration and heat transfer applications. • To develop test plans, including testing scope, using test standards. • Any other duties as directed by the CTO of Active Building Centre Ltd (or their nominated representative).
<p>Person specification:</p>	<p>Qualifications & Experience:</p> <ul style="list-style-type: none"> • Educated to Degree Level in Mechanical or Chemical Engineering. • An MSc in Thermal Engineering (or a minimum of 5 years experience in Thermal Engineering). <p>Knowledge and Skills:</p> <p>Essential:</p> <ul style="list-style-type: none"> • A comprehensive understanding of Thermal Design Engineering. • An advanced knowledge and experience in Refrigeration Design, System Simulation and Refrigeration system Testing. • Knowledge of various refrigerants including CO2 & Propane. • Advanced IT Skills and proficiency in MATLAB / Python (or similar package). • The ability to solve problems using both technical and analytical skills. • A keen eye for detail. • The ability to work on your own initiative or as part of a team. • Knowledge of Industry developments, standards and legislation.

	<p>Desirable:</p> <ul style="list-style-type: none">• Experience of Subcritical and Transcritical CO2 Systems.• Project management experience.• Experience of working in an SME Start-up Organisation.
--	---

