School of Computing, Engineering & Physical Sciences
Paisley campus

Kooltech Ltd (Company Glasgow based)
KTP Associate – Research Scientist (Software Engineering and AI)
Salary per annum: up to £42,000 plus £5,000 personal development budget and the opportunity to do a higher degree at no cost
Full time: 42.5 hours per week
Fixed Term: 36 months

THE POST – KTP Associate – Research Scientist (Software Engineering and AI)

Join us on an exciting journey to revolutionise Kooltech's digital landscape and drive sustainable growth!

We are seeking a Software Development professional with expertise in AI and machine learning technologies to join an innovative Knowledge Transfer Partnership (KTP) project between the University of the West of Scotland (UWS) and Kooltech Ltd. This project is focused on creating a state-of-the-art digital platform that revolutionizes the design, installation, and maintenance of air source heat pumps (ASHP). By leveraging advanced digital tools, the project aims to significantly enhance user engagement, ensuring that end users experience optimal building comfort and energy efficiency. Additionally, this initiative will streamline the entire ASHP lifecycle—design, installation, operation, and maintenance—boosting Kooltech's competitive edge and strengthening brand loyalty.

Essential skills required for the KTP Associate:

- Minimum MSc/MEng in Computing Science, Electrical/Electronic Engineering, Computer Engineering, or related fields.
- Experience in test-driven and agile software development methodologies, software documentation, version control, technical writing, and user training.
- Manage the project lifecycle, engage with stakeholders, prepare reports, and communicate effectively with stakeholders and team members.
- Experience in machine learning and artificial intelligence software libraries (e.g., Scikit-learn, TensorFlow, Keras) with proven track record in developing and implementing feature extraction and detection algorithms.
- Experience in data stream visualisation, system automation, and user interface development, including dashboards/APP.
- Experience in Python, Java, C/C++; hands-on experience in database management systems (e.g., MySQL); product commercialization/certification experience (e.g., IP and risk management).

About the project:

This KTP project between UWS and Kooltech aims to design and develop a cutting-edge digital tool that leverages AI to transform the way air-source heat pump (ASHP) systems are designed, installed, and maintained. By enhancing engagement with all stakeholders—be it during installation, design, or maintenance phases—we aim to fully realize the benefits of this technology. This initiative will not only streamline operations and boost user satisfaction but also reinforce Kooltech's position as a leader in sustainable heating solutions in the UK. Initially targeting the commercial heating market, the innovative knowledge and systems developed will also extend to the domestic property market, maximizing the impact for both Kooltech and the wider Wolseley group. Embrace the opportunity to be part of a transformative project that addresses carbon challenges and sets new standards in the industry.

If you have questions about this vacancy contact:
T: Professor Muhammad Zeeshan Shakir or Mr Scott Mason
E: Muhammad.Shakir@uws.ac.uk or scott.mason@kooltech.co.uk

Further information including a detailed job description and how to apply are available at https://jobs.uws.ac.uk/

About the Company:

Established in 1979, Kooltech is a large UK distributor of refrigeration and air conditioning products (£65m revenue in 2023), providing both standard and bespoke design solutions for refrigeration, heat pump, and air conditioning applications. In 1994, Kooltech began distribution of Mitsubishi Electric's full range of air conditioning products. As part of the Wolseley Group, Kooltech continues to innovate and expand its market presence. https://www.kooltech.co.uk/

About KTP:

This position forms part of the Knowledge Transfer Partnership (KTP) funded by Innovate UK. It's essential you understand how KTP works with business and the University, and the vital role you will play if you successfully secure a KTP Associate position. Please visit: https://www.uws.ac.uk/business/knowledge-expertise/knowledge-transfer-partnerships/

Why UWS?

KTP is a strategic priority at UWS. The only Scottish University with a dedicated KTP Centre dedicated to supporting your KTP and professional development journey, UWS is #1 in Scotland for management KTPs and top-10 in the UK by size of our KTP portfolio.

Closing Date: Friday 9th August 2024
Interview Date: Week commencing 26th August 2024.

The University reserves the right to shorten/extend the closing date of any position where a high/low volume of suitable applications are received. Therefore, if you are interested in this role, an early application would be encouraged.