

Electronics Engineer

Reporting To: Head of Robots

Term: ASAP, permanent, full time

Package: Salary + Performance Related Pay + Attractive Options Scheme

Location: London (Wandsworth)

The role:

Q-Bot is looking to hire a talented Electronic Engineer to join a multidisciplinary Product Development team. The role will primarily consist of the complete design and implementation of electronic systems for our next generation robotic platforms: taking high level requirements to derive detailed requirements, sourcing modules or designing PCBs from scratch, prototyping and testing the complete design, and ensuring a smooth transition from initial prototypes into production. In particular Q-Bot is looking for someone comfortable designing hardware architecture and PCBs for microcontrollers and mini PCs. Although the role is primarily electronic systems design for production and manufacturing the successful applicant will be asked to engage with other areas of design and engineering, for example; full robot testing, firmware, controls, and design.

This is an excellent opportunity to get involved with a high tech, high growth company, and work within a creative and dynamic team. To make the most of this exciting opportunity Q-Bot is looking for someone who is ambitious, driven and who will be motivated by seeing their efforts have a real and lasting positive impact for the UK and beyond. The successful candidate will be rewarded with an exciting, diverse, and demanding role which has many opportunities for career progression.

Salary will depend on experience and the successful candidate will also be invited to take part in the Employee Share Option Plan (ESOP) and / or performance related pay.

Duties of the job:

- Design for manufacture including electronic component specification, PCB design, and layout.
- Designing and prototyping custom electronic circuits.
- Refinement of PCB design and retrofitting improved designs into production robots.
- Testing and debugging robotic systems.
- Running experiments, analysing data, and comparing results to theory.
- Documentation, ensuring conformance to standards, and passing accreditation.
- Safeguarding electronic designs to be EMC compliant.
- Researching a topic, reporting and presenting back.
- Presenting and communicating ideas, including planning software development.
- Visiting customer sites and analysing products in situ.
- Project management of assigned projects/work packages.

Essential requirements:

- A good degree in Electronic / Mechatronic Engineering or equivalent. Or a degree or relevant experience that demonstrates an excellent understanding of electronic engineering and circuit design.
- Fluent with the PCB design tool Altium.
- Proven track record of developing and testing electrical systems in a commercial environment
- Good written and verbal communication skills (English).
- Eligible to work in the UK without restriction.

Desirable skills:

- Experience in C++, Linux, ROS and / or SLAM.
- Experience of designing PCBs for microcontrollers and mini PCs.
- Experience of machine vision.
- Experience with robotics, hardware and / or embedded systems.

About Q-Bot:

Q-Bot is revolutionising the construction industry with robotics, digital tools and AI to transform archaic processes and enable new services for the inspection maintenance and upgrade of buildings. Q-Bot’s mission is to be able to measure and improve the health of buildings without the cost and disruption of traditional methods.

The company has commercialised a highly innovative method of applying under floor insulation using a [robotic device](#) and has a number of new services in development. As a result of this work Q-Bot has developed a number of exciting robotic and AI technologies which include robotic vehicles, digital manufacturing and 3D printing, control routines for autonomous localisation and navigation, 3D mapping of environments with automatic categorisation of features, as well as tools to manage the installation process and data collected.

The company has a growing team of 30 employees in offices in London and Newcastle. Q-Bot has state of the art equipment, including an in-house pick and place machine and 3-axis CNC milling machine. Q-Bot is run by an experienced management team with an entrepreneurial track record, project management expertise and unique blend of robotics and building know how. The company’s employees are a unique blend of engineers with Masters and PhDs in Science or Engineering and professionals with decades of practical experience in the construction sector.

Q-Bot is an equal opportunities employer and welcome applications from all suitably qualified persons regardless of their race, sex, disability, religion, belief, sexual orientation, or age.

Please apply to: future@q-bot.co with a covering letter and CV.

