



TOUHLABRobotics

GIVING ROBOTS THE POWER OF HUMAN TOUCH

Location: Edinburgh, Scotland

Company: Touchlab Limited

Salary: £45,000 - £55,000 (with Performance pay and bonus), commensurate with experience

Employment Type: Full-time

About Us:

Touchlab Limited is a cutting-edge robotics and electronic skin technology company, pioneering innovations in tactile sensing for advanced robotics. Our mission is to revolutionise how robots interact with the world by developing state-of-the-art e-skin sensors that enable unparalleled dexterity and touch sensitivity. We are looking for a talented and driven E-Skin Engineer to join our growing team.

Job Description:

We are seeking an Electronic Skin (E-Skin) Engineer to contribute to the design and development of our next-generation e-skin sensors. The ideal candidate will have a strong background in flexible thin-film capacitive/piezoresistive sensor design, performance analysis, and material science in screen-printable composites. While microfabrication experience is a plus, it is not a requirement for this role.

Key Responsibilities:

Design and Development:	Assist in the design, development, and optimization of flexible thin-film sensors, focusing on capacitive and piezoresistive technologies for tactile sensing applications.
Material Science and Composites:	Work with advanced screen-printable composites and materials to enhance sensor performance, durability, and flexibility.
Performance Analysis:	Conduct thorough performance analysis of e-skin sensors, including sensitivity, reliability, and durability testing, to ensure they meet the required specifications.
Prototyping and Testing:	Develop prototypes and lead the characterization of thin-film/flexible devices, ensuring they meet the intended tactile sensing functionalities.
Collaboration:	Collaborate with cross-functional teams, including mechanical, electrical, and software engineers, to integrate e-skin sensors into robotic systems.
Documentation and Reporting:	Maintain detailed documentation of design processes, test results, and performance metrics, providing clear communication to the broader engineering team.
Innovation and Research:	Stay updated with the latest advancements in sensor technology and materials science, contributing to continuous innovation in e-skin development.

Qualifications:

Experience:	Proven experience in designing, developing, and characterizing thin-film/flexible devices, preferably within the sensing domain, and ideally in tactile sensing.
Education:	Ph.D. or Post-Doctoral experience in Electrical Engineering, Materials Science, or a related field, with a focus on sensor technology or flexible electronics.
Technical Skills:	Strong background in capacitive/piezoresistive sensor design and material science in screen-printable

composites. Familiarity with flexible electronics and tactile sensing technologies is highly desirable.

Collaboration: Excellent teamwork and communication skills, with the ability to work effectively in a multidisciplinary environment.

Bonus Skills: Experience with microfabrication is advantageous but not required.

What We Offer:

Innovative Environment: Work on cutting-edge technology with a team of passionate engineers and scientists.

Professional Growth: Opportunities for career development and continuous learning in a rapidly evolving field.

Competitive Compensation: A comprehensive benefits package including competitive salary and flexible working hours.

Impactful Work: Be part of a pioneering company that is shaping the future of robotics and tactile sensing.

Application Deadline: 13th of September 2024

If you are interested in working with us, get in touch.

Email **hiring@touchlab.io** including your CV and Introduction

Visa sponsorship is available for overseas skilled workers.

We are an Equal Employment Opportunity (EEO) employer and do not discriminate on the basis of race, colour, national origin, religion, gender, age, veteran status, political affiliation, sexual orientation, marital status or disability.