

Location: London, UK

Salary range: £38,000-£50,000 per annum, dependent on experience

Applications open until 15 September

We reserve the right to close applications early.

Role Overview

Infiniti Recycling Ltd is an innovative, fast-growing startup with a passion for driving impactful change in our industry. Our team is dedicated, dynamic, and highly collaborative. We are seeking a skilled and innovative Mechanical Engineer to join our dynamic team.

The successful candidate will be responsible for the design, development, testing, and building of robotics and custom machinery specifically tailored for the recycling of lithium-ion batteries. The ideal candidate will have a combination of mechanical engineering expertise, creativity, and a passion for sustainability and thrive working in a rapidly changing environment while maintaining a proactive and flexible attitude.

Qualifications and Experience

- Bachelor's or Master's degree in mechanical engineering or a related field.
- Proven experience in mechanical design, preferably with a focus on robotics and custom machinery.
- Proficiency in CAD software (e.g., SolidWorks, Onshape, CATIA).
- Understanding of materials science and manufacturing processes.
- Experience with prototyping, testing, and validation of mechanical systems.
- Excellent problem-solving skills and attention to detail.
- Led end-to-end mechanical design and development, taking products from initial prototyping through to full-scale production, including design validation and manufacturing handoff.
- Applied geometric dimensioning and tolerancing (GD&T) to create fully defined engineering drawings, ensuring clear communication of design intent for manufacturability and quality control.

Key Responsibilities

Design and Development:

- Design mechanical components and systems for robotics and custom machinery used in lithium-ion battery recycling.
- Develop detailed engineering drawings and specifications using CAD software.
- Collaborate with cross-functional teams to ensure designs meet project requirements and industry standards.

Prototyping and Testing:

- Build and test prototypes to validate design concepts and ensure functionality and performance.
- Conduct simulations and analyse test data to refine designs and troubleshoot issues.
- Implement design modifications based on test results and feedback.

Manufacturing and Assembly:

- Oversee the manufacturing process, ensuring components and systems are produced to specification.
- Assemble and integrate mechanical systems, robotics, and machinery.
- Work closely with suppliers and manufacturers to source materials and components.

Project Management:

- Manage project timelines, budgets, and resources effectively.
- Coordinate with other engineering disciplines (electrical, software, etc.) to ensure seamless integration of systems.
- Prepare technical documentation, including manuals, reports, and progress updates.
- Work collaboratively in a team environment and manage multiple projects simultaneously.

Innovation and Improvement:

- Stay up to date with advancements in mechanical engineering, robotics, and recycling technologies.
- Identify opportunities for innovation and continuous improvement in recycling processes.

Preferred Skills:

- Experience in the recycling industry or with lithium-ion battery technology.
- Knowledge of automation and control systems.
- Familiarity with programming and simulation software.
- Familiarity in small, scaled prototyping techniques (e.g. Arduino).
- Experience working with contract manufacturers or suppliers.

What We Offer:

- Competitive salary and benefits package (25 days holiday)
- Opportunities for professional growth and development.
- Flexible working
- A collaborative and innovative work environment.
- The chance to make a tangible impact on environmental sustainability.

Due to our hybrid model, we can only consider applicants who are legally entitled to work in the UK.

****How to Apply:**** Interested candidates should submit their resume, cover letter, and portfolio of relevant work, if available, to careers@infinitirecycling.com

****Infiniti Recycling Ltd**** is an equal opportunity employer. We celebrate diversity and are committed to creating an inclusive environment for all employees.

Join us in revolutionizing the future of lithium-ion battery recycling!