

Do you want to power the energy transition?

Are you a team player; ready, able and willing to take on varied and complex challenges?

As one of the most innovative and fast-growing companies in the Netherlands, Elestor offers exciting and competitive career opportunities with plenty of scope for both personal and professional development. Elestor has a job opportunity for a:

Mechanical Engineer Stack Design

32-40 hours per week
Arnhem, The Netherlands

Position

As Mechanical Engineer Stack Design, you work on the design, development and evaluation of a new generation flow battery power module. You translate front-end scientific knowledge into an innovative product. You will be working on the design of the stack assembly and cell assembly as well as on individual stack and cell components. You will create expertise on several stack components and will work on the functional design of these parts, its material compatibility and producibility, all in order to achieve functionality and cost targets. You will be in the lead for the build of the prototypes and to be able to show that components achieve their targets. To do this you will define and develop tooling and define test specifications for your parts. You will be in close contact with the test engineers, the R&D team and system engineering team. You report to the Team Leader Stack Engineering.

Profile

The ideal candidate has proven skills, knowledge of and experience with the design and development of innovative multi-disciplinary hardware. You have excellent mechanical engineering skills, combined with a high level of creativity and a drive to innovate. You have a working knowledge of material engineering and design for volume production, and are willing to learn about electrochemistry.



You have strong communication skills with scientists and engineers of various disciplines internally, as well as with suppliers. You are excellent in stress and time management and are able to keep working in a safe and structured way, while under pressure to meet deadlines and cost targets.

Tasks and responsibilities

- Design and develop flow battery components, e.g. sealings, pressurized housings and internal cell components (membrane, bipolar plates, electrodes)
- Define and support stack testing to ensure that the stack components achieve the required performance, cost and durability
- Optimize stack design for low costs and for mass production processes
- Preparing and reviewing of technical drawings
- Negotiate with (key) suppliers on design, requirements, manufacturability and cost
- Lead or participate in performance improvement and cost reduction projects

Education, skills and experience

- MSc or BSc in Mechanical Engineering
- 5+ years of relevant working experience
- Expertise in resolving technical challenges
 - Proven creativity in resolving design problems
 - Knowledgeable in engineering polymers and elastomers
- Experience in 3D CAD modelling (Solidworks)
- Excellent analytical and data analysis skills
- Knowledge of production processes and quality control
- Knowledge or experience which is an asset:
 - Relevant work experience in the field of flow batteries, PEM electrolyzers or fuel cell technology
 - Sealing design and seal production technologies
 - Injection moulding, transfer moulding, mould design
 - Electrochemical material science
 - Simulation software: FEA, CFD
 - Basic project management expertise
 - International experience
- Strong communication skills with scientists/engineers of various disciplines.
- Ability to keep working in a safe and structured way while under pressure to meet deadlines
- An entrepreneurial mindset
- Fluency in English



Our offer

Elestor offers an open, action-oriented and exciting working environment in a diverse and international team of highly skilled professionals. We have a flat management structure and offer many opportunities to excel and grow for the right candidates. Terms of employment are competitive and include participation in a Stock Appreciation Rights (SAR) program.

About Elestor

Elestor has been recognised as 1 of the 10 most innovative companies in the Netherlands by both the University of Amsterdam and the Dutch Chamber of Commerce. We are about to embark on an ultra-rapid growth path, fueled by multi-million euro investments as well as by agreements with clients strategically adopting our innovative storage technology in commercial settings.

Elestor's revolutionary low-cost flow battery systems have received several national and international awards in recognition of our ability to reduce the cost of storing electricity to an absolute minimum. Our batteries are made in accordance with a triple cost reduction strategy, using low cost and abundant active materials (hydrogen and bromine), a compact and easy to manufacture cell, and a patented pressurized system design.

Elestor has the technology to play a decisive role in realizing the energy transition towards a 100% clean electricity supply. The international market pull for Elestor's technology is concrete and very fast growing. Elestor's ambition is to build the Gigafactory equivalent for flow batteries.

Elestor is an equal opportunities employer: We believe diversity aids creativity and innovation, so whatever your race, colour, nationality, national or ethnic origin, sex, gender, marital status, religion, age, sexual orientation or disability, you are welcome to join our ranks. We actively promote inclusion and we abhor discrimination. We treat all our employees, contractors, workers, job applicants, suppliers, clients and everyone else with respect.

How to apply

To apply for this position, please send your application with CV and motivation letter to hrm@elestor.nl