



Electrode Research Engineer

32-40 hours per week
Arnhem, The Netherlands

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:

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Elestor's Mission & Relevance

Imagine a world without polluting power plants, powered purely by clean electricity.

This world is closer than you think. The sun and the wind are powerful enough, and so are the technologies to harvest their energy. However, possibilities to store renewable energy (sustainably, cost-effectively) are lacking; Long-Duration Electricity Storage (LDES) is “the missing link” in the energy transition.

It is Elestor’s mission to cut the cost of electricity storage. We develop large-scale, cost-effective HBr storage technologies that are carbon neutral and durable, thereby unifying the interests of the planet, people, and business profitability.

Elestor - Facts & Figures

Long Duration Electricity Storage deep tech company

- Winner of several (inter-)national awards

Ultra rapid growth path; Elestor is expanding in every direction

- Passionate team of 35 highly skilled professionals with the ambition to increase towards 100 fte within two years
- Closed €30M funding round in August 2022

Concrete and very fast-growing international market pull

- Agreements with clients strategically adopting the innovative storage technology in commercial settings

Technology & Roadmap

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. Our revolutionary low-cost flow battery systems have received several (inter)national awards in recognition of our ability to reduce the cost of storing electricity to an absolute minimum. For more understanding, feel free to visit our [website](#). Here we'll explain more about the underlying fundamentals and the triple cost reduction strategy, making Elestor's solution unique on the world stage.

Elestor is backed by a €30 million investment and is now ready to implement an ultra-rapid growth strategy to accelerate the commercialisation and operationalization of its proven hydrogen bromine flow battery technology. The segment is expected to represent a market potential of approximately €20 billion by 2025. The international market pull is already concrete and very fast growing!

People & Growth

At Elestor you will be in the middle of genuinely unprecedented developments, made possible by an international group of researchers and engineers of remarkable talent and diversity. In future years, the company will expand literally in every direction. In anticipation of this steep growth, Elestor will look forward to meeting sincere, thoughtful, and entrepreneurial individuals feeling energized to empower necessary change: towards a 100% clean electricity supply.

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.



Position

As Electrode Research Engineer, you work on the development of the anode and cathode side of the cells of the redox flow battery. This involves electrode structures, materials and coatings, but also the interaction with the bipolar plates, flow fields and membrane. You will be the spider in the web, interacting with the R&D team, test engineers and your team members of the Stack Engineering department. You report to the Team Leader Stack Engineering.

Tasks and responsibilities

- Design and develop the gas and liquid electrodes of the flow battery
- Define and support stack electrode testing to ensure that the required performance, cost and durability targets are achieved
- Optimize electrode and flow field interaction in the cell
- Optimize electrode setup for controllable and repeatable performance
- Negotiate with (key) suppliers on design, requirements and manufacturability
- Lead or participate in performance improvement and cost reduction projects

Profile

The ideal candidate has proven skills, knowledge of and experience with the design and development of gas and liquid electrodes of the flow battery. You have a high level of creativity and a drive and a working knowledge of chemical, electrochemical and material engineering. You have strong communication skills with scientists and engineers of various disciplines internally, as well as with suppliers. You are excellent in time management and are able to keep working in a safe and structured way, while under pressure to meet deadlines and cost targets.

Education, skills and experience

- MSc. in Material Science & Engineering or Chemical Engineering
- 5+ years of relevant work experience in flow battery, electrolyser or fuel cell technology
- Excellent analytical and data analysis skills
- Knowledge of production processes and quality control
- An entrepreneurial mindset
- Fluent in English
- Knowledge or experience considered an advantage:
 - Electrochemical material science
 - Simulation software
 - Finite Element Analysis (FEA)
 - Computational Fluid Dynamics (CFD)
 - Basic project management expertise
 - International experience





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.

Terms of employment are competitive and include participation in a Stock Appreciation Rights (SAR) program. When we succeed, we all benefit. Especially in caring for what we share the most: a healthy planet.

How to apply

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



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