



Stack Test 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 Stack Test Engineer, you work on testing and evaluating new flow battery power modules (the Elestor stack) on a component, cell, and stack level. You will perform electrochemical tests on cells and stacks and analyze the results. Besides electrochemical cell and stack testing, you will execute more specific material, functionalities, and durability tests. You troubleshoot when issues occur during the tests, and you will be in close contact with stack engineers and system engineers for the test plans and the development of the test stands. You report to the Team Leader Stack Engineering.

Tasks and responsibilities

- Validation testing of the Elestor stack on component, cell, and stack level
- Execution of internal and external stack tests from test plan to test report
- Participate in test stand development to perform the required tests (test stand design, safety assessments (FMEA, HAZOP), and test stand production)
- Cooperate with other test engineers and interact with engineering and R&D
- Reporting test results and drafting conclusions
- Preparation of test materials, like proto components and cells
- Troubleshooting of issues during tests

Profile

The ideal candidate has proven skills, knowledge of, and experience with, the testing and assembly of innovative multi-disciplinary hardware. You are precise, have excellent testing skills, and have a high level of creativity and drive. You have experience in mechanical/chemical engineering and are willing to learn about electrochemistry. You have strong communication skills with scientists and engineers of various disciplines internally and with suppliers. You are excellent in stress and time management and can keep working in a safe and structured way.

Education, skills and experience

- MSc or BSc in Mechanical, Mechatronic, or Process Engineering
- 3+ years of relevant work experience in resolving technical challenges and design problems using a systematic test approach
- Knowledgeable in electrochemical material science and engineering polymers and elastomers
- Excellent analytical and data analysis skills
- Knowledge or experience, which is an asset:
 - Relevant work experience in flow batteries, PEM electrolyzers, or fuel cell technology
 - 3D CAD modeling (Solidworks)
 - Working in laboratories with hydrogen or acids
- An entrepreneurial mindset
- Fluent in written and spoken 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.

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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