



Storing electricity in metal

e-Zinc Inc.
25 Advance Road
Toronto, Ontario
M8Z 2S6

Job Description –

Manufacturing Manager – New Product Introduction (NPI)

About e-Zinc

e-Zinc is an energy storage startup based in Toronto with a breakthrough technology poised to disrupt the market. As the global energy grid moves to higher levels of penetration of renewable energy, there will be an exponential increase in demand for low-cost, flexible, long-duration energy storage. This is the market targeted by e-Zinc, the first in the world to “metalize” electricity. e-Zinc technology is also fire resistant, made of fully recyclable materials, does not rely on precious metals, and has a fast response time.

e-Zinc has recently won several awards for its technology and business plan including:

- [Raised \\$3.5M in an oversubscribed round and was featured in Greentech Media](#)
- [Won a \\$1.6M grant through Breakthrough Energy Solutions Canada](#)
- Won a \$2M grant from SDTC
- [Won a USD \\$1.3M grant through California Energy Commission](#)
- [Named to Cleantech Group’s Top 50 companies to watch](#)
- [Won a \\$700k grant as a finalist in NRCan’s Charging the Future Challenge](#)
- [Raised \\$2.3M in a private round funded by BDC Capital](#)

This promising cleantech venture is now looking to expand its talented team to bring its technology to market to support the renewable energy transformation.

Opportunity

e-Zinc is searching for an experienced and talented Manufacturing Engineer and to work with the engineering department to lead the production and of the e-Zinc electrochemical cell.

Accountability

Reporting to the VP Engineering, the Manufacturing Manager, NPI is responsible for developing and implementing manufacturing processes and methods for e-Zinc cells and the various parts and components in the cell. The person

The Manufacturing Manager, NPI is responsible for working with Design Engineering on New Product Introductions (NPI). The development of the production process using DFMA strategies, the creation of tooling jigs and fixtures as well as the assembly and commissioning



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of new assembly lines and training of the production team as the company grows are the key responsibilities of this role.

The person is also responsible for developing practical solutions to mechanical and engineering problems that may arise during technology and product development in a timely manner. In addition, the Manufacturing Manager is expected to play dynamic roles in participating or leading specific projects or supervising production engineers and assembly personnel as well as engaging manufacturing partners to make or source parts or components depending the needs of the company, and in doing so to take on more responsibilities as the business grows.

Position scope and responsibilities

- Participate and coordinate in the fabrication of parts and components and integration of reactors for energy storage systems.
- Explore and develop methods, tools and processes for manufacturing parts and components for different scales of production
- Establish and maintain relationships with suppliers for plastic, sheet metal and mechatronics components (motors, pumps, PWBA's, wiring harnesses etc.)
- Work with sub contractors to provide support and ensure timely delivery of contracted goods and services
- Develop and maintain a Bill of Process for assembly of the product tracking current production costs and identifying process and design improvements that will reduce cost.
- Participate and assist in cell design and system testing and installation occurring in other departments.
- Develop specifications and procedures that will meet the safety and emission regulations and standards
- Prepare and maintain production documentation, including "as-built" mechanical drawings, BOMs, time and motion analysis reports, assembly and test procedures and manuals.
- DFMA: work in parallel with the designers to ensure design is optimized for manufacturing
- Experience in creating and maintaining PFMEA and Control Plans
- Creation and maintenance of assembly work instructions and Standard Operation Procedures.
- Design of jigs, fixtures and tooling required for assembly processes.
- Process validation and verification; ensure product meets requirements and specifications
- Process and Gauge R&R
- Develop and perform process training for staff
- Ensure Lean manufacturing principles are incorporated into processes.



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Required Qualifications

- Mechanical, Electrical or Industrial Engineering degree from an accredited university.
- Registered P.Eng. (or ability to qualify)
- 10-15 years running a manufacturing line or production facility
- Demonstrated ability to train, lead and manage production staff (engineers, technicians, skilled trades and general labour).

Extra Qualifications:

- Advanced degrees are an asset
- Oversight and production planning for a CNC shop are considered an asset.
- Experience with automated welding processes.
- Experience with epoxy potting processes.
- Experience with close fitting mechanical components that must seal to the environment. Battery, Hydrogen Fuel cells or vacuum applications may be relevant.
- Battery Manufacturing and Quality Control experience is considered an asset.
- Developing CNC tool Paths using Fusion 360, SolidWorks CAM, HSM Works (Solid works Plug-In)

Other Attributes

- Motivated to strive and succeed in a start-up environment.
- Disciplined and hard working.
- Exceptional communications skills – oral, written, and presentation skills.
- High level of maturity, integrity and personal effectiveness.
- Self-starter and adaptive learner
- Personal accountability and commitment to achieving and exceeding goals and objectives.

Application Deadline

Please send resumes and cover letters via email using “Manufacturing Manage, NPI” in the subject line to: careers@e-zinc.ca.

Due to a high volume of applicants, please make our job easy to identify you as a match for this role. In your cover letter please explain your interest in the position and how your skills and experience are a match to the job description.

Applications will be reviewed and interviews will be held on a rolling basis as applications comes in. The position will be filled as soon as the right candidate is found. We thank all applicants for their submission, but only those selected for an interview will be contacted.

Please apply ASAP if you are a strong fit to the requirements of this role.