



Storing electricity in metal

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

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## Job Description

### Process Engineer

#### 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 a number of awards for its technology and business plan including:

- [Raised \\$3.5M in an oversubscribed round and were 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’s solicitation for non-lithium technologies](#)
- [Named to Cleantech Groups Top 50 companies to watch](#)
- [Won a \\$700K grant as a finalist in NRCan’s Charging the Future Challenge](#)

e-Zinc is now well capitalized through venture and grant financing to fund its future growth. 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 looking for an experienced and talented process engineer to scale up to pilot and production the manufacturing of a performance-critical component, air cathode, for their energy systems. This is a rare opportunity that will provide a platform for the right person to help shape a young company’s technology and contribute meaningfully to its success. This opportunity will allow the candidate to work on a unique technology and create its processing/production line from ground up. The ideal candidate will appreciate this because they thrive in a challenging situation, is intelligent and technically savvy, has a passion for success, and will stop at nothing to ensure we achieve our goals collaboratively and collectively.



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## Accountability

Reporting to the Director of Technology Development, the process engineer will be responsible for taking the lab processes to a pilot scale and later to industrial production levels. The candidate will work closely with the Air Cathode team and Technology Development group in general to design a large-scale process/production for manufacturing of air cathodes. The candidate will also actively contribute to the design of a process where necessary; preferably giving input to define relations between processing step and the final properties of the air cathode.

The candidate will have a scientific mental acumen, the ability to understand the process in its entirety and the implications of critical process steps. The candidate will have excellent judgement, attention to detail, written communication skills, and be able to prioritize tasks in the context of meeting key results and objectives that have been collaboratively set by themselves and their manager.

## Position Scope and Responsibilities:

- Scaling up the processes developed in lab to a pilot scale production
- Optimization and fine tuning of process to meet rated specs of the product
- Establish a production line capable of meeting production targets
- Establish quality control procedures
- Establishing documentation for production including SOPs, data logging and inventory management system
- Liaison with suppliers and securing demand-based supply of raw materials
- Contribute towards future R&D pertaining to processing
- Publishing weekly incident and production reports
- Report and troubleshoot problems in production line.
- Providing technical input to team members.
- Maintaining safe environment for yourself and others.

## Qualifications and skills:

- A minimum of undergraduate degree in engineering; preferably chemical or process engineering
- A minimum of 5+ years of experience in industrial manufacturing preferably in:
  - Polymer science
  - Rubber processing and manufacturing (extrusion, rolling etc)
  - Coatings
  - Membrane electrode assemblies
- Previous work experience in electrode manufacturing is considered an asset.
- Have an in-depth understanding of correlation between film/sheet processing and film/sheet macro/micro properties



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- Have a wide knowledge base on equipment, techniques and tools used in the manufacturing and coating of films and characterization thereof.
- Skilled in running a production line and managing a production crew.
- Superior time management and organizational skills.
- A self-starter and adaptive learner.
- Must be legally eligible to work in Canada.
- Disciplined, hardworking and result oriented
- Exceptional communication skills – verbal, written and presentation skills.
- High level of maturity, integrity, and personal effectiveness.
- Personal accountability and commitment to achieving and exceeding goals and objectives.

### **Hours of work and location:**

- Must be able to meet the physical demands of the position.
- Flexibility to work any shift to support product development timelines.

### **Language of work:**

- Work is conducted in English.

### **Application Deadline**

Please send resumes and cover letters via email using “Process Engineer” the subject line to: [careers@e-zinc.ca](mailto:careers@e-zinc.ca) and address you cover letter to Tyler Schon, Director of Technology Development.

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.