

Job Description – R&D Scientist (Engineer)

About e-Zn

e-Zn 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-Zn, the first in the world to “metalize” electricity. The company’s zinc-based energy storage system is the least expensive for long-duration applications and it can cycle without degradation in capacity. It is also fire resistant, made of fully recyclable materials, does not rely on precious metals, and has fast response time.

e-Zn has recently completed a solar energy demonstration project awarded by the Government of Canada. The company has also successfully raised new venture capital 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-Zn is searching for a talented scientist or engineer with solid grasp of scientific method, engineering principles, and a creative mindset to carry out R&D projects and to make contributions in solving problems and creating solutions to advance the technology and product development.

This is a rare opportunity that will provide an R&D platform for the right person to unleash their talent and creative potential. The job will result in a significant expansion of knowledge and skills and will have ample room for growth in scope and responsibility as the technology involves multiple scientific and engineering disciplines, such as electrochemistry and materials, as well as electrical, chemical and mechanical engineering.

Position scope and responsibilities

- Carry out new or on-going R&D projects in the areas of materials, structures, manufacturing of electrodes, and construction and performance of electrochemical cells
- Acquire knowledge and understanding of the fundamental aspects of the technology
- Develop skills, expertise, and capabilities that are of value to the technology
- Supervise junior personnel such as technicians or intern students
- Interact with people in the product development and engineering team and participate in problem solving activities
- Document the findings resulted from R&D activities
- Monitor the status and development in the relevant fields of science and technology that are pertinent to e-Zn’s technology
- The scope and responsibilities may vary depending on the actual educational background, work experience, and personal aspirations of the candidate

Qualifications

- Masters or Ph.D. degree in electrochemistry, materials science and engineering, chemical engineering, or engineering physics
- Solid grasp of the scientific method with demonstrated achievements
- Demonstrated creativity and problem-solving skills
- Demonstrated mastery of hands-on experimental skills including designing and building experimental facilities, use of scientific devices and instruments, and handling chemicals and materials
- Excellent communications skills – oral, written, and presentation skills
- Preference will be given to candidates with industrial R&D working experience, particularly in the fields of batteries, fuel cells, electroplating, materials processing, and catalysts synthesizing
- Must be legally eligible to work in Canada

Other Attributes

- Passionate in making a difference to develop new technologies to stop climate change
- Motivated to strive, succeed and grow in a start-up environment
- Disciplined and hard working
- Proactive and a fast learner
- High level of integrity, honesty and work ethic
- Personal accountability and commitment to achieving and exceeding goals and objectives

Contact

Please send resumes and cover letters via email using “R&D Research Scientist” in the subject line to:

careers@e-zn.com. Attention to Dr. Gregory Zhang.