

Company Description

No matter which country you are in, the transition from an economy based on fossil fuels to one based on sustainable energy sources is well underway. It takes slightly different approaches, and it progresses from different starting points depending on the area, but it is clear, we are all engaged in a global shared "electrification" challenge. At BASQUEVOLT our mission is to develop sustainably the best battery materials and cells that will make possible the mass deployment of electric transportation, stationary energy storage and advanced portable devices. Our proprietary solid-state battery technology will allow us to develop and commercialise safe, high performance and affordable products for a diverse portfolio of customers, from mobility, stationary energy storage and consumer electronics. To this end, we offer the position of Formation Process Engineer.

Information

 Deadline: 2023-12-31
 Category: Business
 Province: Araba / Álava

 Country: Spain
 City: Vitoria

Company

BASQUEVOLT



Main functions, requisites & benefits

Main functions

The Formation Process Engineer successful candidate will join Basquevolt's Cell Engineering team and will be responsible for the electrochemical design of Basquevolt's lithium-ion cells for our global customers. Reporting to the Process Engineering Director, s/he will have to: Develop and scale up assigned responsibility for formation process. Lead prototype builds through development of the processes, tooling, and equipment. Define process critical parameters to optimize the process condition to make sure the consistency of cell manufacturing. Work with machine suppliers during equipment design to implement required capabilities and process. Provide process documentation (PFMEA, Control Plan) for the newly developed processes and assembly concepts. Confirm process standards based on the optimum equipment operating and process conditions through process capability analysis and statistical process analysis. Evaluate process data to determine failure modes and identify opportunities to improve; contribute to improved design and operating specifications supporting product, material, process, and equipment development initiatives. Support optimization of formation process applied to Basquevolt proprietary technology. Perform battery tear downs to identify failure modes and prepare reports. Analyse process data and communicate results with cross functional teams. Investigate equipment related issues to provide root cause analysis and support timely corrective actions. Ensure appropriate collection and utilization of process data at pilot and production scaling. The Formation Process Engineer is expected to work as a team member with other parts of the company and maintain in-depth relations with all members of the Process Engineering team.

Requisites

We are looking for a highly skilled and motivated individual capable of taking up this challenging opportunity to develop an ambitious project. Applicants should have a high degree of initiative, flexibility and should be open to intense interdisciplinary collaboration, first in an early-stage start-up but moving progressively to an efficient mid-size organisation. Specifically, we will assess expertise in the following aspects: Degree in Mechanical / Mechatronic / Process Engineering. A minimum of 3 years of experience advanced manufacturing process innovation projects. Good understanding of Li cell technology. Ability to directly manage other team members. Technical knowledge and ability in process engineering disciplines. We expect high readiness to work with strong engagement and creativity in an interdisciplinary and international environment. Uses good problem-solving techniques to identify root cause. Implements actions to eliminate further occurrences. Write clear and accurate process procedures for manufacturing. Supports process changes, design changes, trial parts, and Kaizen improvement activities. Experience in lithium cell formation process at pilot and giga scale. Experience with pouch cell. Experience with prismatic and cylindrical format is a plus. Applicants should be fluent in English. Spanish or any other European language will be a plus.

Benefits

A permanent position as Formation Process Engineer that will give you a unique opportunity to work alongside some of the most