

Generator Electrical Calculation Engineer

GE Power Portfolio Power Portfolio Steam Power Engineering/Technology Early

Job Description Summary

At Steam Power we are used to change and have been continuously adapting to respond to the to the many factors shaping our industry. Change is how we keep pace with the world around us and ensure our long-term sustainability. To achieve this requires us adopting a strong services mindset that becomes the very DNA of Steam Power. As a result, we have become more of a services organization. We believe our success in large part will depend on us being as diverse of a team as our customers and regardless of our role, every one of us can contribute to making Steam Power the service provider of choice by customers around the globe.

As a Generator Electrical Calculation Engineer, you will be responsible for the electromagnetic and cooling design of upgrades (Nuclear, Fossil & Industrial), new build applications (Synchronous Condensers & Fossil) and capital parts. As a member of the Generator Electrical team, you will also support Core Service Engineering with technical expertise for outage activities. This team is multi-location, multi-cultural and works in collaboration with other teams including Design Engineering, Technology, and Core Service Engineering to conceptualize, design and document the solution for manufacture, installation, and operation.

Job Description

Success in this role looks like:

- You will be autonomous in performing the electromagnetic and cooling calculations and interact with the design team to define the resulting physical configuration
- You will contribute to complex problem solving as electrical calculation subject matter expert as part of a multi-discipline team

Your role:

- You will be required to use in-house calculation tools as well as commercial tools such as Ansys Maxwell, Fluent and Matlab

- You will work closely with the other engineering teams and provide support where needed
- You will participate to Root Cause Analysis
- You will participate to customer meeting if required
- You will contribute with innovative concept ideas in New Product Introduction (NPI) definition and execution phase
- You will have a Lean culture and propose ideas for continuous improvement in the electrical calculation and engineering process

Basic Qualifications:

- Bachelor's degree in Electrical Engineering, or equivalent learning through experience
- Strong understanding of electrical engineering fundamentals including electro-magnetic and high current machines
- Practical experience in use of engineering tools (Ansys Maxwell, Fluent, Matlab)
- Fluent in Polish and English

Desired Qualifications:

- Demonstrated ability to analyze and resolve complex problems
- Ability to document, plan, and execute a project
- Pragmatic outlook
- Strong interpersonal skills

Additional Job Description

Additional Information

Compensation Grade

PB1

Relocation Assistance Provided: No