Our company is hiring for a methods engineer. Please review the list of responsibilities and qualifications. While this is our ideal list, we will consider candidates that do not necessarily have all of the qualifications, but have sufficient experience and talent.

## Responsibilities for methods engineer

- Add new capabilities and functions to the analytical tools within the area of expertise and apply those tools and knowledge to solve difficult design challenges
- Provide lubrication related expertise, CFD and structural FEA, to answer technical questions and create solutions for existing and new applications
- Specify and initiate purchase of consumable and contract tooling
- Assist in the development of proposed manufacturing concepts, and introduction of new processes for machining, assembly and forming
- Conduct product manufacturing capability audits at vendor's premises in support of Vendor Approval process
- Continually examine all processes for opportunity of cost reduction and process improvement, making use of all tools and techniques available
- Solve non-routine FEA problems in PS subsystems and components
- Use or develop customized methods for structural analysis and to perform multi-disciplinary optimization
- Deliver analysis standard work and tools for execution by product engineering teams, , CAE, Design Responsible Engineers, & Calibrators
- Interface with Technical specialists, CAE & product engineers to establish project plans

## Qualifications for methods engineer

- Minimum 10 years' experience in power electronics converter design and control systems
- Proficient at programming in Assembly, high level programming languages such as C and/or C++, Matlab and Simulink, Operating systems, microcontroller driver development
- Hands on experience designing power electronics and risk-based systems for extreme environmental conditions
- Solid history of execution and project leading on several development projects from concept to industrialization
- Experience in multi-phase power conversion products up to 10KW