

## Design Engineer

### Description

Deciding where to work is a big decision. At BorgWarner, we manage talent as seriously as we manage our businesses. We encourage you to learn about our company's proud history, strong culture, technology leadership and future vision. If you find that you share the BorgWarner Beliefs and would be interested in a Design Engineering role with BorgWarner (now or in the future), we invite you to submit your resume via this job posting. That is the first step toward experiencing pride, passion, performance and potential with a career at BorgWarner.

### KEY ACCOUNTABILITIES

- Works primarily with Senior Designers and Designers, Application Engineering and Program Managers. Participates as key member of program team to execute new customer design projects; maintains existing designs.
- Interfaces with Application Engineering, Product Development, Suppliers and Customers to design turbocharger assemblies and components correctly. Works through engineering changes and uses software tools such as CAD, FEA, CFD and various internal applications to perform basic analysis on new designs.
- Leads Design and Drawing Reviews for new components and turbochargers on assigned projects.
- Performs engineering calculations of moderate complexity and does dimensional analysis including tolerance stack-ups.
- Familiar with and able to properly apply GD&T to casting, machining and assembly models and drawings per ASME/ANSI Y14.5-1994.
- Initiates and coordinates critical design changes with Manufacturing engineering and the Supplier Management team while maintaining key design features across product lines.
- Communicates design changes to Engineering, Manufacturing and Purchasing.
- Creates and maintains secure translations of CAD data into neutral or customer specified formats.
- Participates with Application Engineering in customer project reviews.
- Maintains project status reports for scheduling.
- Updates and maintain electronic CAD data within SAP-PLM Product Data Management (PDM) system.
- Initiates and executes new design releases and existing design changes with SAP-PLM 4ECM Change Management System (CMS) software.

### Qualifications

#### QUALIFICATIONS:

- Requires a Bachelors Degree in an Engineering discipline.
- Must have strong technical math skills, especially trigonometry and descriptive geometry.
- Requires 2000+ hours of Pro-E experience or an equivalent 3D solids package (SolidWorks, UG or Catia). Surfacing capability is strongly desired.
- Casting design experience or equivalent manufacturing design experience is strongly preferred. A strong understanding of the relationship between casting and machining of various components is required. Must understand current tooling, pattern making and casting practices as related to sand, permanent mold and investment casting design requirements.
- Requires basic knowledge of fundamentals of internal combustion engines.
- 3 years of experience in diesel engine or automotive component design preferred.
- Knowledge of Turbochargers is a plus.
- Proficiency with Microsoft office software (Word, Excel, PowerPoint, and Outlook) is required.

**Primary Location** US-North Carolina-Asheville-1849 Brevard Road

**Schedule** Full-time

**Job Level** Individual Contributor

**Education Level** Bachelor's Degree (±16 years)

**Job Type** Standard

**Shift** Day Job

**Employee Status** Regular

**Travel** Yes, 10 % of the Time