



Office Job Posting

Position Available: Design Engineer II (performing FEA exclusively) 2 Positions (may be filled at Sr level depending on candidate's qualifications)
Location: Holland, MI or Muskegon, MI
Department: Trailer R&D Suspensions or PVS Design Engineering
Business Unit: Trailer Systems or Powered Vehicle Systems
Hours: 8:00 a.m. – 5:00 p.m.
Reports to: Director R&D Suspensions or VP Engineering
Salary Grade: Exempt

Qualifications Required:

- Qualification 1: Bachelor's Degree (B.S.) in Engineering (or foreign equivalent) or a related field require. Three (3) years experience in a design/development area of Product Engineering, and 1-3 years related experience and / or training in finite element analysis applications (ANSYS preferable), and CAE (Solid Works preferable)
- Qualification 2: OR equivalent combination of education and experience.
- Qualification 3: Knowledge strength of materials calculations and manufacturing processes.
- Qualification 4: Ability to communicate orally and in writing ideas and design concepts to both technical and non-technical personnel.
- Qualification 5: Experience in production, tooling, solid modeling and design.
- Qualification 6: Ability to create complex 3D solid models and make associated 2D geometry.
- Qualification 7: Working knowledge of MS Office for documents, spreadsheets and presentations.
- Qualification 8: Ability to read, analyze and interpret common scientific and technical journals, financial reports, and other engineering-related documents. Ability to respond to common inquiries or complaints from internal or external customers. Ability to effectively present design engineering information as applicable.
- Qualification 9: Must have the capability to apply principles of modern algebra, plane or solid geometry and trigonometry to both physical & theoretical design problems. Able to apply and interpret advanced mathematical concepts involving interpolation & curve fitting, calculus, differential equations and statistics.
- Qualification 10: Ability to define problems, collect data, establish facts, and draw valid conclusions. Ability to interpret an extensive variety of technical instructions in mathematical or diagram form and deal with several abstract and concrete variables.

Summary of Job Duties:

While often working on more than one project, works from requirements or instructions to design and develop new products or redesign existing components. Capable of performing detailed, independent engineering calculations using advanced engineering software tools. Responsible for design engineering support for assembly and testing of engineering prototypes.

- Responsible for the creative elements of product design with a focus on improving component life, optimizing weight and cost, and reducing the number of physical prototypes.
- Designs, develops or redesigns new or existing company products using solid modeling and advanced analytical software tools.
- Establishes design specifications and defines product design requirements. Selects materials of construction, fabrication methods and specific tests required for product verification and validation.
- Independently authors and submits Test Requests in support of design engineering assignments.
- Performs detailed, independent engineering calculations using one or more advanced techniques such as finite element analysis, parametric design techniques, kinematic analysis, or fatigue life analysis.

Job Posting –Design Engineer II

- Responsible for communication with internal and external customers to identify pertinent design information, support product development and the transition into manufacturing.
- Directs work of Designers in support of assigned project team.
- Responsible for complying with all company policies, procedures, values, ethics, and rules.
- Responsible for following all safety rules including, but not limited to, reporting all accidents to supervisor immediately and utilizing all prescribed safety equipment including personal protective equipment.
- Participates in and supports the Company's equal employment opportunity and affirmative action policy and actions. Refrains from any form of harassment (sexual, racial, religious, etc). Immediately reports discrimination or harassment to supervisor or the Human Resources representative.
- Supports company's Quality and Environmental programs and meets quality requirements specified for position. Meets quality requirements specified by production drawings, bills of materials, control plans, policies, work instructions, and procedures.
- Participates in and/or completes appropriate training. As appropriate, submits documentation of specific training (i.e. course description, certificate)
- Meets with supervisor at least once per year to review job performance using this job description as a basis for appraisal.
- Maintains complete security and confidentiality of all Company records and employee data.
- Maintains a clean, orderly and professional work environment.
- Other duties as may be assigned.

Candidate Pool: Open to any qualified candidate.

Travel Requirements: 5% - 10% travel may be required.

Relocation: No benefits available.

Resumes can be emailed to "aabfall@hroillc.com" or faxed confidentially to 616-719-5376, or by mail to Rachelle Warrick, HR Manager, 467 Ottawa Ave., Holland, MI 49423.

Equal Opportunity Employer