



As the world's leading manufacturer of vacuum systems in the field of metallurgy and heat treatment, we, ALD VACUUM TECHNOLOGIES, set standards through innovative products, state-of-the-art technology, comprehensive service as well as maximum flexibility.

We are looking for a **Bachelor/ Master of Engineering (Mechanical Design)** candidate (Male/ Female)

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| Department | Engineering & Design |
| Title: | Design Engineer |
| Experience | 3-5 years (Mid-level) |
| Field of Expertise | Vacuum Equipments/ Furnaces |
| Experience | Minimum 3-5 years' experience in the field of Vacuum equipment design; Furnace design and engineering, Calculations, Modelling |
| Application Industry | Heat Treatment & Metallurgy (Aerospace, Automotive, Tools and Dies, etc.) |
| Job Location | Bangalore & Navi Mumbai, INDIA |
| Work days | 5-6 days |

Principal Duties:

- Provide engineering management and analysis of projects to include but not limited to: design, calculation, component specification, cost estimation and technical service
- Be an active participant as part of a multi-disciplinary team to make conceptual design, development, construction, and documentation of equipments
- Interface with co-workers and customers as part of the design, development, implementation activities and delivery cycle associated with equipment builds
- Provide analytical problem-solving support to the assembly factory/assembly lines and challenges associated with equipment fabrication/assembly/quality/tests, and installation & commissioning and technical service activities

Qualification & Technical Competencies:

- Bachelor/Master of Engineering degree in Mechanical/Electrical/Mechatronics/Design
- Design and analysis of mechanical/electrical structures/ low/high/ultra-high vacuum systems
 - High Pressure Vessel design/construction

- High Temperature Hot Zone design/construction
- Heating Elements/ Heat-Shield or Insulation design and construction
- Heat Exchanger design/construction
- Hot-zone support structure/Hearth bar design/construction
- Hands on aptitude with an understanding of standard design practices and manufacturing techniques
- Advanced skills in 2D & 3D CAD software - preferably AutoCAD and Inventor or Solid Works
- 3D design for vacuum chambers and systems
- Knowledge and application of numerical modelling in solid mechanics
 - Thermal exchange calculation / Computational fluid dynamics (CFD)
 - Finite Element Method (FEM) and thermo mechanical simulations analysis
 - UHV special motion feedthrough's and in vacuum multiaxial manipulation
 - In vacuum cooling and heating processes
- Working knowledge of pneumatics, vacuum process systems, electrical components, and automation
- Knowledge and application of various type of materials, surface and thermal treatments for high vacuum/ultra-high vacuum
- Knowledge about Heat treatment, brazing, carburizing, hardening, annealing, melting, etc.
- Review engineering and design for future planning in line with Company's strategy plans

Soft Skills & Behavioural Competencies:

- Adaptable, honest, trustworthy, and self-motivated
- Willingness to learn, and will be open to input from new/experienced members
- Take responsibility for own actions and decisions
- Identifying, defining and assessing problems, taking action to address them
- Understanding when teamwork is required to achieve the best results
- Delivering high quality work on time and fulfilling expectations
- Having a structured and organised approach towards work
- Being able to set priorities and plan tasks with results in mind
- Delivering presentations in a structured and clear way
- Ideas and suggestions with conviction and in a logical/structured manner

If the above advertised position appeals to you, please submit your recent resume to hr-s@ext.aldvt-india.com and keep cc sudhir@aldvt-india.com and vaithi@aldvt-india.com with the position advertised for in the email subject, your salary expectation and possible starting date. We are looking forward to talking with you to understand things better.

ALD Vacuum Technologies India Pvt. Ltd. (ALDVT India)

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