



MECHANICAL ENGINEER: MOBILE HEAVY EQUIPMENT POSITION DESCRIPTION

COMPANY DESCRIPTION:

Please visit our website www.nationalcompressedair.com for the latest information on our products, services, applications and upcoming events.

Providing innovative solutions to customers on every continent...NCA is a world leader in specialized and custom engineered compressors, drilling systems and track carriers. Applications include oil and gas drilling (underbalanced drilling, work over, air drilling), pipeline testing, land and marine seismic programs.

Custom Oilfield Packaging - Screw compressors to 500 PSIG, Booster compressors to 5,000 PSIG, Nitrogen Membrane Systems, DNV and/or CSC certified sea containers or crash frames, Zone 2 Hazardous Area Classification.

Seismic Exploration Equipment - Man-portable, helicopter portable, track mounted air compressors and multi-purpose drills, Marine Air Gun Compressors to 3,000 PSIG with optional sea water cooling.

REPORTS TO: Engineering Manager

HOURS:

- Monday to Friday 8:00 – 17:00
- 1 hour per day for lunch
- Overtime / Weekend hours as requested by Operations Manager

POSITION RESPONSIBILITIES:

The Project Engineer is responsible for elements of design as well as organizing and executing project builds. The Project Engineer works closely with the Operations Manager, Ordering and Production Departments to ensure all areas are aware of project design details & timelines. Therefore, excellent attention to detail is imperative to this position.

RESPONSIBILITIES:

- Manages Projects as a lead from design, procurement, shop assembly, testing and documentation
- Organizes work for the shop floor by ensuring parts, drawings and photos are organized in advance of shop work, and are communicated to the shop supervisor on a daily basis.
- Prepare technical specification for compressor accessories like Valves, Coupling, and Moisture Separator etc. and source companies to purchase from.
- Is the key technical lead for each project, and must be an effective communicator to support staff to monitor and explain requirements during shop build.
- Develop / Prepare final Bill of Materials for all projects.
- Maintain the Master Bill of Materials template for standard projects.
- Procurement activities for fabricated items (not standard items): gets pricing from vendors, pricing approval by Operations Manager, Purchase Request submitted to Purchasing Department.
- Performs and reviews engineering calculations for sizing & selection of compressor accessories.
- Design, develop & prepare engineering drawings on ACAD for project layout, frame / skid, components & related accessories and then see them through fabrication and installation.
- Accurately edit / revise existing drawings as necessary (Component, P & ID, and Electrical).
- Piping Design calculations & prepare ISO Piping drawings on ACAD.
- Maintain / Edit REV level & drawing # for all engineering drawings (fabricated parts).
- Maintain Pressure Vessels drawings / calculations & file in red binders.



- Update / revise drawings during and after project completion.
- Notifies Ordering, Engineering, and Production Departments of any ECNs (Engineering Change Notice) & will update BOM, ACAD and hard copies of drawings as approved by Operations Manager.
- Oversees creation of the projects Operation Manual and prepare as-built drawings and part lists to be included.
- Check technical data of major component like engines, cooler coupling and receiver.
- Prepare layout of Compressor Package for customer quotations (used if customer wants to see package dimensions).
- Prepare complete application for TSSA registration for Pressure Vessels.
- Update / Maintain the Production Logbook (Serial # for Engine / Airend / Receiver) in computer under F:/Production/Logbook Directory.
- Update / Maintain Airend / Engine logbook for items in general Stock.
- Prepare BOM for piping materials.
- Inspect the parts as per drawing for all fabricated parts.
- Take photographs of custom built and standard projects for Assembly and records. Will download photographs and add to the appropriate Project File.
- Perform work given by superior as required.
- Be a leading presence for assembly floor for all custom-built projects.
- Set and maintain timelines
- Review / change the spare parts list for standard and custom-built projects.

REQUIREMENTS:

- 5 years' experience building diesel or electric driven machinery.
- Bachelor of Engineering or equivalent.
- Experience with Industrial Engine Controllers or Control Panels and wiring, as well as Pneumatics and Hydraulics.
- Must demonstrate a quick pace, but accurate approach to work. Self-motivated to seek answers from others and have the ability to learn concepts on their own in a timely manner.
- Experience with Compressors an asset.

Applicants may send resume with cover letter via email to hr@nationalcompressedair.com

Please state the position you are applying for. No phone calls please.

We wish to thank all applicants for applying however only selected candidates will be contacted for an interview.

COVID-19 considerations:

All employees and visitors are required to sign in, answer screening questions, wear a mask and hand sanitize.