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Human Resources

Field Service Mechanical Engineer Job Description

Job Title: Field Service Mechanical Engineer

Location: Canada

Department: Field Service

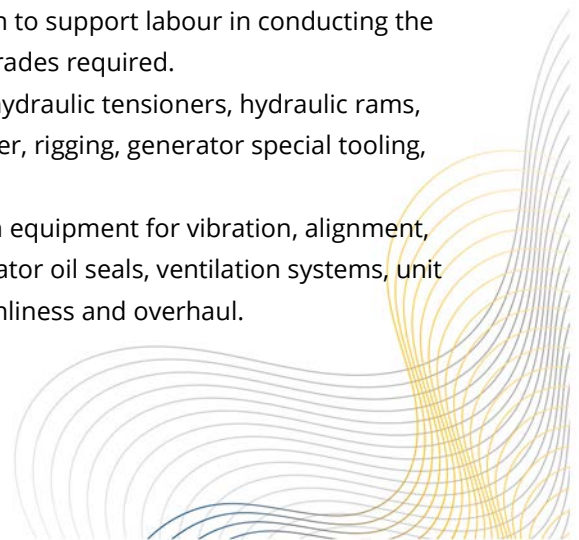
Role Purpose

This customer-facing role requires a high degree of technical competence with a corresponding level of self-sufficiency and resourcefulness as well as executing all responsibilities in a professional manner and with a customer service-oriented attitude. Assignments may require working alone and as a member of a team to perform technical installations, commissioning, maintenance/repairs, and troubleshooting on generator stators, bearings, field/rotor, pumps, exciters, couplings, and auxiliary equipment. Promote BRUSH Service business including activity relating to field service, new unit sales, parts sales, and shop repairs of BRUSH and non-BRUSH supplied equipment.

Desired familiarity with the following: BRUSH BDAX 6, BDAX 7, BDAX 8, BDAX 9, GE LM6000, 7FH2, 6A2, 6A3, 6A6, 6FA, 7A3, 7A6, 9A3, 9A5, 324, in addition to various Westinghouse, Siemens, ALSTOM, and other OEM generator frames/models. Experience with air, hydrogen, and liquid cooled generators in 2 and 4 pole configurations is desirable. Experience with generator rotor and stator robotic test equipment such as RoGIS, MAGIC, and MAGIC Jr. a plus. Experience with generator high voltage testing such as PI, DC Leakage, and Hipot also a plus.

SECTION 1 – Key Responsibilities

- Comply with OSHA, BRUSH, site specific, and other industry standard health and safety practices having jurisdiction to protect both life and property. Maintain, accomplish, and/or attend EHS training as required.
- Interpret machine performance data, instrumentation readings, test values, specifications, technical requirements, and technical drawings to competently understand job scope requirements and assist in performance of job functions.
- Prepare method statements, execute quality documents, maintain on-site safety documentation, and adhere to FME policy.
- Conduct core maintenance activities such as disassembly, clean and inspect, evaluation, and reassembly on heavy-duty industrial generators and equipment such as the following: rotor couplings, frame components, shaft-driven oil pumps, bearings, seals, hydrogen seal assemblies, and rotor removals. Candidate should also be able to give proper direction to support labour in conducting the same activities. Experience working with union and non-union trades required.
- Demonstrate competencies with tooling such as the following: hydraulic tensioners, hydraulic rams, basic hand tools, pneumatic impact drivers, multi-meters, megger, rigging, generator special tooling, calliper, and precision measurement equipment.
- Conduct inspections, evaluate, and provide recommendation on equipment for vibration, alignment, lube oil and jacking oil systems, bearing babbit condition, generator oil seals, ventilation systems, unit running clearances, cooling systems, and overall generator cleanliness and overhaul.



- Conduct electrical testing on low voltage windings in the field.
- Compose detailed and concise technical reports for customer acceptance and documentation of work performed while on-site.
- Submit daily outage reports, timesheets, and expenses in a timely manner to enable Company billing.
- Attend technical meetings and functions as a liaison between the customer and BRUSH Americas to help ensure the delivery of satisfactory services.
- Is required to meet all BRUSH requirements to be able to perform all job duties and functions within the United States.
- Be eligible for and maintain a valid COATS card.
- The ability and willingness to be prepared and available to travel when called upon and on short notice on a regular basis both domestically and internationally 75% - 85% of the time or as business needs dictate.
- This job description is not to be regarded as exclusive or exhaustive and you may be required to undertake various duties as may reasonably be required of you by the Company.

SECTION 2 – Person Specification

Qualifications or Functional Experience

- A Bachelor's Degree in Mechanical Engineering and relevant work experience in or equivalent combination of education and industry experience.
- Valid Driver's License.
- Valid Passport.

Knowledge/Skills

- CAD/Engineering Software.
- Microsoft Office – Word, Excel, Outlook.

Personal Attributes

Not Applicable.

This position is physically located in Canada, and thus, applicants must be authorized to work in Canada. Assistance will be given in obtaining the proper legal work authorizations to be able to perform work throughout the USA.

BRUSH USA reserves the right to require the applicant to submit to and receive a negative result for drug and/or alcohol testing in order to meet customer requirements. In addition, employees are subject to annual drug and alcohol testing during the course of employment as necessary and required for work performed in the US.

It is our commitment at BRUSH to create a diverse environment and we are proud to be an equal opportunity employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, gender, gender identity or expression, sexual orientation, national origin, genetics, disability, age, or veteran status.

