



Repair Development Engineer

SUMMARY:

The individual is responsible for development and implementation of major / advanced repairs to flight derivative industrial gas generator and power turbine rotating and stationary components.

ESSENTIAL DUTIES AND RESPONSIBILITIES:

The position includes, but is not limited to the following essential duties and responsibilities. Other relevant duties will be assigned on an as-needed basis.

- Develop salvage repairs for gas generator and power turbine components.
- Analyze degradation modes and develop durable, cost-effective repair schemes to prevent recurrence.
- Develop repair and/or modification schemes for specialized engine and power turbine shop tooling
- Integrate detailed instructions as required for inspection, repair and assembly of gas turbine engines and power turbines
- Provide technical/process leadership to Operations personnel as required.
- Create drawings to detail repair schemes.
- Develop new and/or improved tooling for engine and power turbine shop maintenance.
- Perform special projects as assigned by management.
- Train personnel in the proper use of manufacturer's technical data.
- Demonstrate a strong commitment to a safe work environment and comply with WGP&W established safety practices and procedures.
- Maintain a safe and clean work area and adhere to all housekeeping requirements. Follow all safety procedures and rules and properly wear all safety protective equipment as required.
- Conduct oneself in a businesslike manner and in the spirit of teamwork.

QUALIFICATIONS:

To perform this job successfully, an individual must be able to perform each essential duty satisfactorily. The requirements listed below are representative of the knowledge, skill, and/or ability required. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

EDUCATION and/or EXPERIENCE:

Bachelor's degree from a four year college or equivalent, relevant training in an aviation or technical school, military training and a minimum of five year's experience, or equivalent combination of education and experience.

LANGUAGE SKILLS:

Proficiency in English, both written and oral to the level of producing technical reports, written work instructions and technical presentations. Ability to read and interpret documents such as safety rules, operating and maintenance instructions and procedures manuals. Must have good technical publication and professional writing skills.

MATHEMATICAL SKILLS:

Ability to apply the concepts of algebra, geometry, trigonometry and college-level math as they relate to dimensional restoration of gas turbine components, fits and clearances, running positions, etc.

REASONING ABILITY:

Ability to solve unusual problems and deal with a variety of variables in situations where only limited standardization exists. Ability to interpret and apply a variety of instructions furnished in written or oral form.

CERTIFICATES, LICENSES, REGISTRATIONS:

An Airframe & Powerplant License is preferred but not required.

OTHER SKILLS AND ABILITIES:

Proficiency with SolidWorks 3-D modeling software and the Microsoft Office environment is required. Hands-on experience in Gas Turbine component repair and process development including fusion welding, brazing, coatings, heat treatment, thermal spray, plating, surface treatments and the inherent metallurgical changes, relationships and implications associated with these processes. Must be able to read, interpret, document and use manufacturer's technical manuals, service Bulletins, Illustrated Parts Catalogs, assembly drawings, inspection sheets and WGP&W assembly records. Should be familiar with the safe use of special tooling and lift and turn equipment.

PHYSICAL DEMANDS:

While performing the duties of this job, the employee is regularly required to stand and use hands to handle or feel objects, tools and controls. The employee is occasionally required to walk, sit, reach with hands and arms, climb or balance, stoop, kneel, crouch or crawl and talk or hear. The employee must occasionally lift and move up to 50 pounds. Specific vision abilities required by this job include close vision, distance vision, color vision, peripheral vision, depth perception and ability to adjust focus.

WORK ENVIRONMENT:

While performing the duties of this job, the employee will work primarily in an office and workshop environment and may travel to local suppliers to review repair progress or discuss technical matters relative to repair implementation.

NO PHONE CALLS PLEASE.

EOE/M/F/D/V