

Repair Development Engineer

A Repair Development Engineer is responsible for the development and implementation of new repairs and/or products, including the creation and documentation of all required processes and procedures used to disassemble, inspect, manufacture components, repair, assemble and test the affected components.

The main job duties of a Repair Development Engineer involve:

- Support the Engineering Department by creating, documenting, developing and implementing procedures to process new repairs and components in compliance with 14 CFR: Part 145, Part 21 and/or any other applicable Code of Federal Regulations, OEM specifications, customer specifications and other requirements as applicable.
- Review technical information as required in support of repair development and implementation projects.
- Review customer purchase orders, contracts and change requests and ensure that the necessary criteria and provisions are communicated to and included repair development and implementation plans.
- Develop repair justifications and quote forms in support of repair development and implementation projects.
- Develop capital requests for tooling and equipment required in support of repair development and implementation projects.
- Develop job planning documents defining in detail the operations to be performed through engineering instructions, drawings and process instructions for repairs.
- Define and conduct all tests required to substantiate repairs developed, i.e.: fit, function, performance, and dimensional requirements.
- Oversee the design of any tooling and fixtures in support of repairs developed.
- Develop internal and external reports identifying the status of repair development and implementation projects on a timely basis.
- Interact with process planners, production planners, operation support and customer service/marketing personnel to ensure the planned work reflects the technical requirements requested by customers.
- Participate in the First Article Inspection Review (FAIR) associated with repair development and implementation programs in accordance with internal and/or customer requirements.
- Effectively communicate with peers, supervisors and management personnel, displaying an attitude that promotes teamwork and cooperation between the various internal departments.
- Demonstrate ability to multitask in a fast-paced work environment.
- A minimum of a Bachelor's Degree in Mechanical, Metallurgical, Industrial, Welding or Aerospace Engineering.
- Five (5) years minimum of experience in the gas turbine engine repair and overhaul business.
- Prior experience working with a Designated Engineering Representative (DER).
- Thorough understanding of Geometric Dimensioning and Tolerance (GD&T) principles.
- Ability to write technical reports and correspondence for internal and external communication purposes.
- Strong computer skills with PTC CREO (preferred) or SolidWorks.
- Experience with advanced computational analyses (Finite Element Analysis, Computational Fluid Dynamics, etc.) desired but not mandatory.
- Customer Interaction and Customer Field Experience is preferred.