Years of Experience
Minimum 3 years of experience

Education
Required: Bachelor’s Degree in Mechanical or Electrical Engineering or equivalent in a related field
Desired: Master’s Degree in Mechanical or Electrical Engineering or equivalent in a related field

Role Summary
Engineer is responsible for three main areas within the Quality Department at the Test Center California. In addition to performing powertrain related analyses within the laboratory, this engineer also develops test benches and is accountable for various project management related tasks.

The engineer’s responsibilities include analyzing, improving and resolving defect vehicle parts from the field and communicating these findings to the responsible departments. The engineer performs ongoing tactile tasks by assisting in corrective action processes of powertrain related defects and by continuously following up on field solutions until resolution has been reached. Additionally, the engineer preventatively works to avoid warranty costs by finding the root cause of defects in order to avoid repeat repairs and improve customer satisfaction by investigating customer complaints and proposing improvements.

Role Responsibilities

Laboratory Analysis
- Performs parts analyses relevant to emission defects and Powertrain deficiencies.
- Develops, tests, and monitors success of technical field fixes.
- Provides/prepares analyses results to other departments (EA, GQ, and VWoA QM)
- Evaluates diagnostic systems, repairs procedures, and proposes improvements.
- Documents and reports analysis results
- Supports Powertrain launch activities.
- Defines and develops measurement devices for parts analysis.
- Prepares presentations and participates in management meetings.
- Acts as a liaison with vendors to introduce improvement to their products.
- Develops and implements test procedures.
- Maintain cleanliness requirement in Lab and Workshop.
Laboratory Test Benches Development

- Designs electrical/mechanical systems by developing and testing components.
- Improves and self-develops test equipment by studying and researching product requirements and thereby applies knowledge when designing, building, modifying and testing test benches.

**Mechanical & Electrical Special Skills**

- Functionally uses mechanical machines like Mill, Lathe and Welder with all corresponding work (e.g. tapping)
- Designs and tests electronic circuits in focus areas including basic electronic, Transistor, Op-amp, PIC corresponding work, soldering, and PCB development.
- Electronically and mechanically tests finished product.
- Creates and implements test bench instruction manuals for third party use.
- Ensures product development complies with federal and state regulations.
- Maintains, troubleshoots and repairs the equipment.

**Project Management**

- Prepares presentations and participates in VWoA-QA weekly handover meetings.
- Supervises technicians aiding in the analyses process.
- Reviews and implements operational policies and procedures.
- Coordinates with colleagues on issues which impact Test Center services.
- Participates in workshops to plan future activities.
- Reduces replacement of ’No Trouble Found’ parts.
- Work on accident prevention regulations.