Application Engineer – India Job description

Job Summary

Location : Pune, Maharashtra.

The application engineer will be responsible for deploying Sciemetric test systems at customer sites throughout India and the rest of the world. The job will involve the use of our proprietary electronic signature analysis software and In-Process Testing (IPT) technology to understand manufacturing process behavior and help customers find defects in their processes. Typical duties will involve creating custom applications using Sciemetric software to acquire, process, and analyze data from analog and digital instruments , or gauging equipment , then apply it to new or existing manufacturing equipment on a machining or assembly line. The application engineer is assigned to a project from the start of application development (programming) through to debug and commissioning on the end customers floor. The job will require significant amounts of travel throughout India and overseas. (up to 50% of the time could be spent traveling).

Typical duties

- Travel to customer site to deploy and commission Sciemetric/CTS/Innomatec test systems in a manufacturing environment. (Customer base is mainly automotive but can include medical, electronic, or consumer products).
- Program and configure application software to collect and process data from instruments such as load cells, pressure transducers, linear and rotary encoders, measurement lasers, and accelerometers.
- Apply the appropriate filtering, smoothing, data processing, and statistical analysis techniques to identify key features in a customer's manufacturing process to enable them to find defects and/or anomalies in their parts.
- Interface Sciemetric hardware (PC based) to communicate and extract data from third party devices, PLCs, gauging equipment, and bolt tightening systems , using various protocols such as field bus (Profinet, Ethernet I/P, Modbus) , file transfer (FTP), serial Comm. and other data transfer schemes.
- Setup and configure Sciemetric data management host server (Qualityworx) to store test results from plant floor data acquisition systems.

Candidate requirements

1. Engineering degree – preferred Electrical/Instrumentation/Electronic
2. 3+ Experience working in a high volume manufacturing environment.
3. Willingness and ability to travel extensively
4. Strong programing skills – preferably experience with a structured programming language such as C or Visual Basic, or equivalent.
5. Familiarity with common manufacturing test processes, for example – leak testing, gauging, engine Hot or Cold testing.
6. A working knowledge of instrumentation and sensors, for example pressure & flow sensors, load cells, accelerometers, linear and rotary encoders, torque transducers, LVDT's.
7. Strong analytical and problem solving skills.
8. The ability to work independently with minimal supervision.

Desirable Attributes

- Experience with data acquisition systems such National Instruments Labview, HBM, or others.
- Prior experience with troubleshooting and calibration of instruments and sensors.
- Knowledge of engine testing techniques (hot test, cold test, fuel injection, ECUs).
- Experience with the manufacture or testing of medical devices
- Working knowledge of queries and procedures on Microsoft SQL databases