

Senior Test Development Engineer

POSITION SUMMARY: Responsibilities include, but are not limited to, the development and support of manufacturing test systems (both hardware and software) for implantable medical products. Analyses production failures and takes corrective action.

ESSENTIAL DUTIES AND RESPONSIBILITIES:

- Designs, develops, and validates electrical test systems (and/or software) for evaluating performance of implant or external products, whether in production or as an aid to product development
- Develop validation test protocols for automated electrical test systems
- Evaluates manufacturing data from electrical test systems to identify characterize device performance
- Select and qualify test equipment for automated electrical test systems
- Investigates root causes of device or component level DUT failure during manufacturing tests to determine corrective action
- Trains manufacturing test operators in use of automated electrical test systems
- Responsible for engineering and manufacturing documentation of test equipment and support systems
- Co-ordinate and execute relevant system level verification and validation test activities at off-site testing houses
- Writes and/or specifies calibration and maintenance procedures for automated electrical test systems
- Investigates root causes of device or component level DUT failure during manufacturing tests

EDUCATION/CERTIFICATION: BS degree in Computer Engineering, EE, or comparable combination of education and experience.

EXPERIENCE REQUIRED:

- Minimum 5 years related experience in developing automated test systems for mixed signal electronic devices.
- Experience with implantable medical electronics preferred.

REQUIRED KNOWLEDGE:

- Proficient in development and deployment of test systems (based on National Instruments software).
- Demonstrated use of software development tools such as emulators and compilers
- Programming experience Microsoft Visual C++ as well as high level scripting languages (e.g. Python).
- Proficiency with basic statistics preferred.

SKILLS/ABILITIES:

- Demonstrable problem-solving skills.
- Ability to collaborate with R&D and manufacturing engineers.
- Good self-organization.
- Able to develop and meet schedules.
- Excellent verbal and written communication skills are required.