

Sr. Lab Technician

Anametric is developing new technologies and devices for chip scale quantum photonics, with a focus on cybersecurity. The company enjoys a close working relationship with Southern Methodist University (SMU) in Dallas, Texas. Together, we are commercializing innovative devices based on the SMU team's advanced research along with Anametric's deep experience in semiconductor design and cybersecurity.

Anametric is searching for a Senior Lab Technician. The successful candidate will perform a variety of complex tasks to test and debug electronic and photonic chips and their associated prototype test fixtures. Must work both collaboratively and independently to proactively test, debug, and influence the next generation design of a cutting-edge quantum photonics platform. Will work closely with design engineers to create and execute detailed and rigorous test plans. Will aid in the debugging of a mixture of FPGA and full-custom IC using standard electronics and photonics test bench equipment. Will be called on to apply basic optical, electrical and electronic theory and related knowledge, to build, repair, calibrate, and modify electrical components, circuitry and equipment.

Duties & Responsibilities

- Support development and sustaining hardware engineering
- Repair, rework and maintain systems as requested
- Repair/debug to component level
- Perform FPGA firmware and driver updates
- Apply system reworks
- Support Quality through first level Failure Analysis following standard procedures on an as-needed basis
- Construct, maintain, modify, test, and troubleshoot lab test bench systems and components
- Assist design engineers with FA endeavors
- Troubleshoot and repair electronics systems and instruments.
- Run tests or fault diagnostics on equipment to locate and address a problem.
- Order parts as needed
- Replace or repair parts
- Set up and run initial tests on new electronic systems or equipment.
- Create prototype enclosures and assemblies

- Calibrate equipment as needed
- Follow wiring diagrams, drawings, and schematics to ensure that all systems are assembled and installed correctly
- Update software and run tests and test cases on existing equipment
- Maintain detailed records of tests and upgrades performed
- Perform routine, regularly scheduled preventive maintenance on electronic equipment to avoid issues and potential down time
- Maintain a log of maintenance tasks (completed on what dates and when certain tasks should be performed again in the future)
- Maintain Reports and Manuals
- Logs and reports that outline tests run, parts used, repairs completed, and troubleshooting steps followed
- Construct prototype hardware from a design specs or concept

Required Experience:

- Strong analytical and excellent communications skills.
- ≥5 years of work experience as Electronics Lab Technician or related position.
- Associate degree, equivalent vocational training, or equivalent experience.
- Ability to work both collaboratively and independently, to multi-task and meet deadlines.
- Ability to write reports, logs, and to author procedures.
- Ability to effectively present information and respond to questions from design engineers.
- Ability to define problems, collect data, establish facts, and draw valid conclusions.
- Experience assembling and reworking high-density custom circuit boards.
- Familiarity with FPGA setup and programming
- Capacity and interest to learn new skills

Desired Experience:

- Familiarity with Lasers and Photonics test equipment
- Familiarity with High-precision analog electronic test equipment

Location: Dallas, Texas

U.S. Citizenship required