

TSS Microscopy LLC

Senior Re-Manufacturing & Field Service Engineer in Beaverton, Oregon

Job Duties: Provide re-manufacturing and field service to Scanning Electron Microscopes (SEM), Transmission Electron Microscopes (TEM), Focused Ion Beam Microscopes (FIB), Dual Beam (FIB-SEM) Microscopes (DB). Additional duties within the following areas include:

Re-manufacturing: Perform specific duties with respect to Electron Microscopes, which include the following: calibrate, repair, upgrade, refurbish or modify; disassemble and prepare; install, test, and demonstrate full functionality;

Field Service: Perform preventative maintenance and field upgrades; investigate equipment failures and/or difficulties in diagnosing faulty operation, and recommend remedial actions;

Customer Training: Provide operational, customer maintenance and applications training to the end users.

Accessories Instrumentation: Utilize knowledge and hands on experience with including but not limited to, compustages, manual stages, Klein stages, Peltier stages, Hot stages and Tensile stages energy dispersive x-ray, wavelength dispersive x-ray, Charged Coupled Devices (CCD) cameras, Computer-aided Design (CAD) navigation, micro & nanomanipulators systems, gas injection systems.

Ancillary equipment: Utilize knowledge and hands on experience with including but not limited to, chillers, compressors, roughing pumps, Uninterruptible Power Supply (UPS) systems.

50% domestic and international travel required to continental USA and Alaska, Europe (primarily to France, Germany, and Italy), Asia-Taiwan, China, Canada, and Mexico

Minimum Requirements: Applicants must have a minimum of a Bachelor's degree or foreign equivalent in Mechanical, Electrical, Electro Mechanical, or Industrial Engineering, or a closely related field, combined with at least 10 years of experience in re-manufacturing or field service of Electron Microscopes as a Senior Field Service Engineer, Customer Support Manager/Coordinator, or related position, including the following experience in the field of electron microscopy:

10 years' experience working with the electron microscope platforms DualBeam FIB, SEM & TEM

5 years' experience training customers on how to use electron microscopes in life science and materials applications

5 years' experience with vacuum systems and high tension power 200kV - 300kV

5 years' experience with Small Computer System Interface (SCSI), Ethernet protocols and Local Area Network (LAN), Transmission Control Protocol/Internet Protocol (TC/IP)

5 years' experience utilizing accessory instrumentation and ancillary equipment for electron microscopes and preparing biological and material science samples to properly fit into the electron microscope chamber/column for imaging

5 years' experience with chemical reactions using Xenon Difluoride, Iodine, Platinum, Tungsten, Carbon, etc. with the FIB and DualBeam electron microscopes

All education, experience, and training may be gained concurrently. Applicants must be U.S. workers (includes U.S. citizens, permanent residents, foreign nationals granted temporary residence under one of the 1986 legalization programs, refugees, and asylees). Interested candidates should submit resumes directly to Theresa@TSSmicroscopy.com and reference the job title in the subject line.