



National Electrostatics Corp.

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Mechanical Assembler

As the world leader in the manufacturing of electrostatic ion beam accelerator systems, National Electrostatics Corp. (NEC), is always looking for the best, quality candidates to join our team. Being a part of the NEC team offers many rewards including being a part of an environment where we want to see you grow and succeed. We are an employee-owned company that has been in business for over 50 years. Benefits include 10 paid holidays, paid vacation and sick leave, dental insurance, group health insurance, and retirement plans.

Job Summary:

The Mechanical Assembler is responsible for assembling, disassembling, testing, and debugging of complex vacuum components.

Essential Duties:

- Custom assembly of vacuum beam line components including electrical wiring, soldering and/or heating while adhering to a specified set of blueprints.
- Conduct meticulous inspections, test completed equipment to verify functionality, safety, and conformance to specifications, using testing instruments and software.
- Adjust, repair, or replace faulty components of the machinery during and after the assembly process to guarantee optimal performance.
- Apply lubricants and other treatments to assembled products to ensure proper functioning and longevity.
- Document assembly processes, including recording serial numbers of components used, problems encountered, and solutions applied, to maintain accurate production records.
- Ensure compliance with industry standards and customer expectations.
- Utilize precision measuring instruments such as micrometers, calipers, and gauges for ensuring components mesh seamlessly and function as designed.
- Keep all equipment and work areas clean and free of debris.
- Ability to effectively interface with team members and individuals with technical discussions and solutions.
- Assist with shipping functions, including building skids and/or crates as needed.
- Other duties as assigned.

Required Skills:

- Outstanding attention to detail.
- High mechanical aptitude.
- Strong soldering skills.
- Excellent time management and organizational skills.
- Critical thinking and problem-solving skills.
- Exceptional communication skills.



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- Ability to read and interpret instructions, blueprints and schematics as required.
- Must be able to work independently and in a team environment.
- Ability to use overhead cranes, handheld power tools, power tools, measuring tools, leak tester, soldering iron, and scope.

Work Environment: Manufacturing setting with loud noise due to ultra sonic cleaner at times; exposure to and use of chemicals such as acetone, alcohol, and nitrogen oxide.

Physical Requirements:

- Ability to lift up to 30 pounds.
- Ability to perform operations of manual dexterity.
- Eyesight vision of, or corrected to, 20/20.
- Standing and sitting for prolonged periods of time when fabricating equipment.
- Wear protective safety gear such as gloves, safety glasses, and a mask when working on machinery.

Travel Required: None.

Education and Experience:

- High school diploma or equivalent.
- Associate degree in mechanical engineering preferred.
- 1 to 2 years of mechanical assembly experience required.

This job description in no way states or implies that these are the only duties to be performed by the employee(s) incumbent in this position. Employees will be required to follow any other job-related instructions and to perform any other job-related duties requested by any person authorized to give instructions or assignments. All duties and responsibilities are essential functions and requirements and are subject to possible modification to reasonably accommodate individuals with disabilities. To perform this job successfully, the incumbents will possess the skills, aptitudes, and abilities to perform each duty proficiently. Some requirements may exclude individuals who pose a direct threat or significant risk to the health or safety of themselves or others. The requirements listed in this document are the minimum levels of knowledge, skills, or abilities. This document does not create an employment contract, implied or otherwise, other than an "at will" relationship. NEC is an Equal Opportunity Employer and does not discriminate against any employee or applicant for employment because of race, color, sex, age, national origin, religion, sexual orientation, gender identity and/or expression, status as a veteran, and basis of disability or any other federal, state, or local protected class.

Visit www.pelletron.com to find out more about NEC and our products and apply!