



# National Electrostatics Corp.

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**Great benefits in a dynamic workplace that is respectful, friendly and fun – we are a team that is committed to making and keeping our customers very happy!**

NEC is organized around small design and production groups, building world class accelerator based scientific instruments. Mechanical Design Engineers participate in the design, documentation, production coordination, assembly, and commissioning of unique products for research and industry. This position will require communication with NEC departments, external suppliers, and customers. Entry level encouraged to apply. Safe work habits, attention to detail, accuracy, good attendance, and excellent organizational skills, the ability to work and think independently, along with the ability to work cooperatively with others in a positive and professional manner are expected. Must be able to pass a drug screening and background check will be performed. Benefits include paid holiday, vacation, sick leave, disability, life insurance, employer sponsored group health and dental insurances, ESOP and 401(k) retirement plans.

**Job Title: MECHANICAL DESIGN ENGINEER**

**Job Level: Salaried Non-Exempt**

Design Dept. - Work Hours: 7:30 a.m. to 4:00 p.m. CST (schedule is flexible)

**Essential Duties:**

1. Design, test, and document major mechanical components, including vacuum components, for megavolt electrostatic particle accelerator systems.
2. Coordinate initial production and testing, working with persons in engineering and production departments, suppliers, and others, as needed.
3. Write manuals with sections on description, operating procedures, and troubleshooting.
4. Participate in component integration for in-house systems.
5. Correspond with customers and travel internationally on-site for installation and testing. (Duty 5 is added after training and experience on the job.)

**Qualifications:**

1. Bachelor's Degree, preferably in Mechanical or Nuclear Engineering
2. Above average ability to read and write in English
3. Available to travel internationally

**Skills and Experience Requirements:**

1. Mechanical aptitude and experience in mechanical design, preferably for production
2. Experience in vacuum system equipment and techniques
3. Familiarity with basic electronics and experience using personal computers
4. Familiarity with computer aided design programs, such as AutoCAD or SolidWorks

**Physical Requirements:**

1. Eyesight vision of, or corrected to, 20/20
2. Able to use common hand and power tools (ex. wrench, screwdriver, drill)
3. Ability to lift 35 pounds, bend, crouch, squat, twist and reach overhead
4. Ability to perform operations of manual dexterity, many of which are done while standing

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