



# 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!**

This is a regular full-time position with the responsibility of controlling, monitoring and interconnecting equipment for the manufacture of electrostatic ion beam accelerator systems.

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. Benefits include paid holiday, vacation, sick leave, disability, life insurance, employer sponsored group health and dental insurances and 401(k) retirement plans.

**Job Title:** Digital Systems Engineer

**Job Level:** Professional

(Work Hours: Monday – Friday from 8:00 a.m. – 4:30 p.m. CST)

**Essential Duties:**

1. Write programs, primarily in C language for Unix/Linux systems, to control, monitor and interlock equipment in accelerator-based scientific instruments.
2. Modify existing programs and data bases for new system designs and updates.
3. Set up computers with NEC control system software, data bases and interfaces.
4. Help develop electronics hardware to interface with system components. This may involve coordinated work with staff in engineering, production, assembly and test departments, suppliers, customers and others.
5. Perform on-site installation supervision and testing at customer sites around the world.
6. Work with and train customers' personnel.
7. Excellent problem solving skills and ability to work under pressure.

**Qualifications:**

1. Bachelor's degree in computer or electrical engineering preferred.
2. Experience in programming in c and familiarity with Unix/Linux and with databases.
3. Experience in analog and digital circuitry.
4. Experience with Microsoft products/technology.
5. Experience with embedded microcontroller programming preferred.
6. Available to travel internationally.
7. Above average ability to read and write in English.
8. Familiarity with Autocad or other computer aided design software preferred.

**Physical Requirements:**

1. Manual dexterity
2. Ability to lift 40 pounds, bend, crouch, squat, twist and reach overhead.
3. Eyesight vision of, or corrected to, 20/20.

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