

**SITE RELIABILITY ENGINEER – PARTIAL ACCELERATOR SYSTEM**

\$100K - \$140K

100% remote with 10% travel

Contact: [missi@humanelementcompany.com](mailto:missi@humanelementcompany.com)

**Position Summary:**

**\*\*\* THIS POSITION DOES NOT INVOLVE DEVELOPMENT OF WEB APPLICATIONS OR PRODUCTS \*\*\***

**The Site Reliability Engineer role supports project work related to the development of a state of the art, industrial particle accelerator system for medical radioisotope production.** Reporting to the Director of Control Systems and Electrical Engineering, you will collaborate with control engineers in the design, procurement, and commissioning of servers, switches, and other networked devices, and deploy software services to support the EPICS (Experimental Physics Industrial Control System) framework used to provide supervisory control and data archival of the particle accelerator.

**Responsibilities:**

- Develop scripts, automation, templates, system images, virtual machines, and containers to improve availability of the control system.
- Propose improvements to control system to eliminate points of failure
- Document processes and procedures into the group knowledgebase
- Modify and/or debug vendor-supplied software utilities and packages built on the EPICS framework.
- Plan and coordinate the design, procurement, installation, configuration, and maintenance of managed switches, servers, and networking equipment.
- Provide additional IT infrastructure support and project assistance as required
- Quickly respond to and resolve issues and outages

**Minimum Requirements:**

- 3 - 7 years of experience developing or maintaining software for Linux systems
- Experience in the use and configuration of containers (Ex: Docker)
- Experience in the use and configuration of VE software (Ex: Proxmox)
- Network fundamentals in enterprise routing and switching
- Comfortable to work in Linux terminal and use scripting language such as Bash/Python
- Fundamental understanding of Linux networking, file sharing, process/module management, and system configuration
- Basic understanding of cyber security best practices
- Proficiency in version control software such as Git

**Preferential Education / Experience:**

- College degree or equivalent experience
- Development experience with EPICS (Experimental Physics Industrial Control System)
- Bachelor's degree in related area and / or equivalent experience / training
- At least 2 years' experience with network operations or implementation
- Experience maintaining RHEL (Red Hat Enterprise Linux)
- Experience with configuration of Cisco switches and FortiGate firewalls
- Experience in C/C++, Python & OOP

**Physical Requirements:**

- Must be able to sit for long periods of time.

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- Frequent use of computer with repetitive use of keyboard, mouse and manual dexterity.