What You Will Do

This position will be filled at either the Engineer 3 or 4 level, depending on the skills of the selected candidate. Additional job responsibilities (outlined below) will be assigned if the candidate is hired at the higher level.

Cognizant System Engineer 3 ($89,900 - $148,300)

The successful candidate will be expected to independently perform the following duties of this position in the areas of electrical, instrumentation and control, mechanical, structural/civil, or fire protection:

- Supporting configuration management
- Defining and controlling system modification
- Implementing the authorization basis
- Maintaining the technical baseline
- Monitoring, tracking, and trending of major systems
- Defining maintenance requirements
- Troubleshooting
- Performing root cause analysis
- Preparing corrective maintenance instructions for complex or critical operations
- Performing engineered equivalency analysis
- Providing field implementation of the LANL Conduct of Engineering (COE) Program

Cognizant System Engineer 4 ($108,100 - $182,500)

In addition to the duties outlined above, as an expert within the assigned organization, the Cognizant System Engineer 4 will be:

- Building CSE capability around Vital Safety Systems Assessments (VSSA) and System Health Reporting (SHR)
- Serving as a key advisor to deployed engineers
- Leading, developing, reviewing, and integrating deployed CSE activities
- Mentoring junior engineering staff
- Providing expert advice and consultation to Facility Engineering and Engineering Services management related to deployed staff needs

What You Need

Minimum Job Requirements:

- Demonstrated expert technical experience in design engineering or system engineering for nuclear or industrial facility operations
- Expert knowledge of engineering systems and calculations, applications of engineering methods, and application of technology aided engineering tools to conventional and non-conventional facility and operations-based engineering problems
- Knowledge of engineering work planning and control methods
- Expert knowledge of engineering maintenance techniques and construction methodologies
Demonstrated expert experience in engineering including design, commissioning, troubleshooting, and technical baseline maintenance

Demonstrated significant experience working with industry codes and standards

Excellent communication skills, both written and verbally

Additional Job Requirements for Cognizant System Engineer 4:

In addition to the Job Requirements outlined above, qualification at the Cognizant System Engineer 4 level requires:

- Expert knowledge in Conduct of Maintenance and Conduct of Engineering implementation
- Demonstrated experience as a senior technical advisor overseeing and assessing Vital Safety Systems
- Extensive experience in the identification of nuclear and high-hazard facility system aging and degradation
- Expert knowledge of industry, regulatory and DOE/NNSA complex codes, standards, and criteria pertinent to System Engineering and Vital Safety Systems such as DOE 0 420.1 B, and DOE STD-1073
- Proven ability to build capability for CSEs in performing Vital Safety System assessments and preparing System Health Reports
- Understanding of and experience working with Performance Based Indicators
- Ability to coach/mentor Junior engineers
- Proven ability to integrate and coordinate multi-facility deployed, cross-functional technical work activities
- Ability to develop reports for senior management

Desired Skills:

- Demonstrated knowledge of DOE standards applicable to facility design, operation, and maintenance.
- One year of experience in a nuclear facility.
- Knowledge of Engineering principles and procedures, safety basis interaction, design guides, appropriate standards, and administrative practices as applied to DOE non-reactor nuclear and high hazard facilities.

Cognizant System Engineer 3 Education Required: Bachelor of Science in Engineering from an ABET accredited university/college and a minimum of 10 years of related work experience.

Cognizant System Engineer 4 Education Required: Bachelor of Science in Engineering from an ABET accredited university/college and a minimum of 15 years of related work experience.

Where You Will Work

Located in northern New Mexico, Los Alamos National Laboratory (LANL) is a multidisciplinary research institution engaged in strategic science on behalf of national security. LANL enhances national security by ensuring the safety and reliability of the U.S. nuclear stockpile, developing technologies to reduce threats from weapons of mass destruction, and solving problems related to energy, environment, infrastructure, health, and global security concerns.

Los Alamos National Laboratory (LANL) is primarily responsible for monitoring the safety and reliability of the U.S. nuclear stockpile and conducting research into new defense programs. It is a center for research in a wide range of scientific disciplines, including space exploration, geophysics, renewable energy, supercomputing, medicine, and nanotechnology.

Engineering Services (ES) Division of LANL develops, maintains, and applies a diverse set of engineering capabilities to provide innovative engineering solutions that enable the Laboratory's scientific and national security mission. The Cognizant System Engineer (CSE) position within ES Division is assigned to the Facility System Engineering & Management (ES-FE) Group responsible for plant engineering services and the Conduct of Engineering (COE) program implementation at LANL. The COE program elements including processes, standards, training, and qualification are generally applicable throughout the life cycle of a facility. They exist to effectively manage risks and satisfy customer requirements, needs, and expectations in a safe, secure, cost effective, and environmentally responsible manner.

Join LANL's best and brightest and become part of the team that provides the environment to deliver system solutions for our country's national security, now and in the future.

Additional Details:

Clearance: Q (Position will be cleared to this level). Applicants selected will be subject to a Federal background investigation and must meet eligibility requirements* for access to classified matter.

*Eligibility requirements: To obtain a clearance, an individual must be at least 18 years of age; U.S. citizenship is required except in very limited circumstances. See DOE Order 472.2 for additional information.

426.2: This position is subject to DOE Order 426.2, Personnel Selection, Training, and Qualification Requirements for DOE Nuclear Facilities, which establishes entry-level requirements to ensure candidates selected for specific positions can successfully perform the requirements of the job.

New-Employment Drug Test: The Laboratory requires successful applicants to complete a new-employment drug test and maintains a substance abuse policy that includes random drug testing.
Regular position: Term status Laboratory employees applying for regular-status positions are converted to regular status.

Internal Applicants: Please refer to Laboratory policy P701 for applicant eligibility.

Equal Opportunity: Los Alamos National Laboratory is an equal opportunity employer and supports a diverse and inclusive workforce. All employment practices are based on qualification and merit, without regards to race, color, national origin, ancestry, religion, age, sex, gender identity, sexual orientation or preference, marital status or spousal affiliation, physical or mental disability, medical conditions, pregnancy, status as a protected veteran, genetic information, or citizenship within the limits imposed by federal laws and regulations. The Laboratory is also committed to making our workplace accessible to individuals with disabilities and will provide reasonable accommodations, upon request, for individuals to participate in the application and hiring process. To request such an accommodation, please send an email to applyhelp@lanl.gov or call 1-505-665-4444 option 1.