



YES (Yield Engineering Systems, Inc.) is a leading manufacturer of high-tech, cost-effective equipment for transforming surfaces, materials, and interfaces at the nanoscale. From startups to the Fortune 50, our customers rely on YES solutions to unleash products that change lives -- from cellphones and IoT devices, to AI and virtual reality, to diagnostic tests for COVID.

As a preferred provider of wet and dry process technology, we look forward to talking with smart, energetic, team-oriented people who can grow with us. We provide competitive salary and benefits, including employee stock ownership, and some of the best co-workers you'll find anywhere. If this appeals to you, please read on!

Job Title: Sr. Electrical & Controls Engineer (Systems Engineer)

Location: Fremont CA, Chandler AZ, or Valencia CA

Key Responsibilities

- Collaborate with electrical, mechanical, and software engineers to define design requirements, generate product specifications, and develop electrical subsystems.
- Define system testing and data collection to support measurable success criteria for various projects.
- Participate with risk assessments and FMEA process.
- Plan, develop, and analyze system integration.
- Troubleshoot a variety of complex electrical problems in engineering and production environments.
- Generate technical documentation for product release.
- Assist with defining robotic system requirements and platform integration.
- Deliver full engineering packages, and support manufacturing to ensure a smooth transition into mass production.
- Solve challenging engineering problems by characterizing components, designing/prototyping control systems, circuits, schematics, etc.

Required Qualifications

- **MUST HAVE** 5+ years of semiconductor industry experience.
- Experienced with distributed controls, chemical delivery, and vacuum systems.
- Team-oriented problem solver, with excellent organizational and communication skills.
- Proficiency and experience in AutoCAD, SolidWorks Electrical or similar packages.
- Ability to research and implement new technologies with minimal support.
- Familiarity with safety interlocks and general product safety requirements.
- Broad background in systems engineering (electrical, controls, software, automation, gas delivery systems).

- Ability to research and implement new technologies with minimal support.
- Control systems experience with PLC systems and various communications technologies (Ethernet, PowerLink, EtherCat, Mod-Bus, RS-485).
- Gas delivery controls design & documentation (flow control, interlocks, safe vs. hazardous).
- Able to create software to run test on control system platforms for motion , thermal and other types of simple controls.

Preferred Qualifications

- Previous experience creating code for running engineering test on PLC platform.
- Experience with various systems (chemical delivery, vacuum systems, pressure control, distributed IO).
- Product safety interlock design and international compliance experience.

Compensation

- YES offers a stimulating and fun working environment, competitive salaries and benefits, and company stock.

Additional Information

- This position may be based at one of the following three YES locations:
 - YES global headquarters in Fremont, California
 - The YES Technology Center in Chandler, Arizona or
 - The YES wet processing Center of Excellence in Valencia, California
- Applicants must be currently authorized to work in the United States on a full-time basis.
- YES is an equal opportunity employer and values diversity. All employment is decided on the basis of qualifications, merit, and business need.

Come find out why YES is such a great place to work. Apply today!