

Job Title **Software Engineer Summer Intern**

Job Description Responsibilities:

- Design/code/test new features for FSI's ORION Single Wafer Surface Conditioning System
- Work with software team to coordinate development of new software features and resolve issues

Position Requirements:

- Third or fourth year student in Computer Engineering or Computer Science
- C#/.NET/Windows XP/Windows 7 software development experience preferred

Job Title **Process Engineer Summer Intern**

Job Description -Assist process engineers to test and develop new processes, and improve current processes for semiconductors wafer cleaning

- Prepare wafers and run various process conditions as defined with a process engineer
- Analyze process results by film thickness measurements, surface analysis, and other techniques
- Document all processes and results in a laboratory notebook
- Draw conclusions and propose additional experimental work
- Prepare and present a final project report

Qualifications - A qualified candidate must possess at least the following:

- Completed second year of studies towards a bachelor of science degree in chemistry, chemical engineering, materials science or related field
- Experience working safely in a laboratory environment with hazardous chemicals
- Some knowledge of the semiconductor industry
- Background in computer skills (word processing, spreadsheet analysis, data graphing)

Job Title **Mechanical Engineer Summer Intern**

Job Description -3-6 month internship, working as a member of a small cross functional engineering teams (mechanical/electrical/software) working to develop new products, improve existing products, and customize products to meet customer demands

- Problem solving efforts and coordination of corrective actions within engineering
- Directing the work of CAD designers on assigned projects
- Managing design documentation release on assigned projects

Qualifications:

- Minimum completion of 3rd year of a BS program in Mechanical or Chemical Engineering. Will consider only very strong candidates from other engineering disciplines or with bachelor's degrees in non engineering fields..
- Demonstrated "hands on" mechanical and troubleshooting ability
- Ability to work occasionally in a Class I semiconductor clean room
- Ability to travel, including internationally

Job Title **Electrical Engineer Intern**

Job Description

Responsibilities:

- Design/Test power distribution and control systems for all TEL FSI product lines
- Work with Electrical Engineering team to resolve issues

Position Requirements:

- BSEE from an accredited university
- 3 to 5 years of experience in equipment design
- Experience with capital equipment design in the semiconductor industry preferred
- Experience with interface/control of motors, actuators, and sensors
- Knowledge of IEC 61131-3 PLC programming including structured text
- Strong analytical abilities, capable of understanding complex systems with multiple variables
- Knowledge of equipment safety standards including:
 - o European Machinery, Low Voltage, and EMC Directives
 - o NFPA 79
 - o SEMI S2
- Electrical Schematic drafting experience in Creo and/or AutoCAD
- Knowledge of communications protocols such as Ethernet TCP/IP, EtherCAT, DeviceNet, CanOpen
- Ability to travel to both domestic and international destinations
- Effective communication skills and ability to work well in a dynamic team environment
- C#.NET/XP/Windows 7 software development experience a plus
- Automation/Robotics experience a plus

Job Title **Quality Engineer Summer Intern**

Job Description

Primary responsibilities include:

- Work with appropriate stakeholders (i.e. supplier, manufacturing, engineering, and field) on closed loop corrective actions (8D) to identify and address non-conformances
- Lead/support activities within the quality group for monitoring and implementing processes throughout TEL FSI's supply chain (incoming, manufacturing, and shipping)
- Maintain system to monitor and improve supplier quality
- Participate in supporting our supplier selection process
- Participate in ECO and design review process as required
- Work with our quality inspector to evaluate and maintain tools and equipments within proper calibration
- Write and edit quality procedures and work instructions
- Participate in processes for audits and continuous improvement
- Performs other duties as assigned

Our qualified candidate must possess the following:

- Bachelor's Degree in engineering (electrical, mechanical or manufacturing) or equivalent experience in related industry/studies
- Related work/school experience: 3-5 years towards achieving your BE
- Ability to read and understand mechanical drawings (geometric tolerancing)

- Knowledge of SAP is a plus
- Ability to travel to our supplier sites, if required
- Ability to work schedules to support a manufacturing environment

Special environmental demands for this position:

- Ability to work in a clean room environment
- Ability to lift up to 50 pounds without assistance