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 purpose 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