

Intel Manufacturing Technician Job Description

- Monitor processing equipment sensors, controls and indicators to ensure specifications are met and identify potential abnormalities
- Perform scheduled preventive maintenance procedures including inspecting, testing, cleaning and lubricating equipment
- Diagnose electronics, mechanical, pneumatic, hydraulic and computer problems on complex fabrication tools
- Repair or replace defective components and assemblies following safety protocols
- Qualify newly installed tool sets by running dummy wafers until specifications are met
- Support process optimization activities by adjusting equipment parameters as needed
- Collect production and test data, analyze results and recommend changes to improve yield
- Communicate pending maintenance issues, output falls or breakdowns to supervisors and engineers
- Document all standard operating procedures, maintenance logs, parameters, faults and corrective actions accurately
- Isolate sources of downtime to meet overall equipment effectiveness (OEE) goals
- Coordinate with facilities groups and external vendors for tool relocations, installations and upgrades
- Assist with inventory management of spare parts, consumables and other fab materials
- Coach and mentor entry-level manufacturing technicians on procedures
- Maintain cleanroom integrity by following contamination control best practices

- Participate in safety inspections and drills including wearing bunny suits and masks
- Attend certification courses and qualify on new tools as assigned
- Support process evolution by constructing pilot tools with next-generation technologies
- Map out maintenance workflows using statistical tools like failure modes and effects analysis
- Perform chemical handling including mixing, delivery and waste disposal
- Test emergency response systems including toxic gas monitoring, fire suppression, earthquake drills and emergency shut-offs
- Participate in sustainability initiatives around energy, emissions and water usage
- Identify and implement improvements via the 5S methodology (sort, straighten, shine, standardize, sustain)
- Act as an escalation point between process teams and equipment vendors
- Complete all documentation thoroughly and accurately per company guidelines
- Follow safety, compliance and ethical guidelines at all times.