Quality Engineer

? What Quality Engineers Do

Plans and conducts activities concerned with the quality control and quality assurance of industrial processes, materials, and products

Essential Duties

- Design and implement test plans and audits for products to ensure product quality targets are met
- Establish, define, implement, maintain, and report on quality assurance key performance measures and standards
- Investigate non-conformances and consumer complaints, perform root cause analysis, implement corrective actions, and monitor progress and improvements
- Drive continuous improvement through communication and training on quality standards, requirements, and best practices
- Create and maintain quality systems documentation, such as quality manuals, procedures, and work instructions
- May perform quality assurance and qualification audits on vendors/suppliers
- Devises sampling procedures and designs and develops forms and instructions for recording, evaluating, and reporting quality and reliability data

- Applies statistical process control (SPC) methods for analyzing data to evaluate the current process and process changes
- Prepares and presents technical and program information to team members and management
- Directs technical and administrative workers engaged in quality activities

🎓 Education & Qualifications

- Must be able to access shared database with government programs (U.S. Citizen or Permanent Resident of the U.S.)
- Bachelor of Science degree in Engineering or other STEM field of study
- Associate Level Experience is 0-3 years; Intermediate level is 4- 5 years of experience; Senior level is 6- 9 years of experience; Advanced level is 10+ years of experience
- Proficient with word processing software; statistical analysis software (SPC); graphics software; order processing software, and database software
- Proficient with measurement, calibration, and test equipment

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Get a Head Start....with these classes in middle and high school:

Algebra   Calculus   Physics   Chemistry
Computer Science   Physical Science

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