

Quality Control & Testing Engineer: Associate Principal, Quality Control & Testing Engineer

Analyzes chemical, biological or microbiological products, raw materials, in-process materials, release test samples or stability samples in support of the company's quality program. Interprets and evaluates the analyses in terms of accuracy and precision compared against established specifications and recommends and implements corrective action where necessary. Develops, validates and implements controlled environment methods. Applies existing techniques and procedures with recommendations and implementation of modification for improved efficiency, or devises and develops new analytical methods and techniques. Performs qualitative tests or quantitative assays on samples using techniques that vary from use of standard analytical equipment to highly modern and automated instrumentation. May also be involved in establishing requirements for the transfer of methodology from R&D.

Knowledge

Applies advanced technical principles, theories and concepts. Contributes to the development of new principles and concepts.

Problem Solving

Works on unusually complex technical problems and provide solutions which are highly innovative and ingenious.

Discretion/Latitude

Works under consultative direction toward predetermined long-range goals and objectives. Assignments are often self-initiated. Determines and pursues courses of action necessary to obtain desired results. Work checked through consultation and agreement with others rather than by formal review of superior.

Impact

Develops advanced technological ideas and guides their development into a final product. Erroneous decisions or recommendations would typically result in failure to achieve critical organizational objectives and effect the image of the organization's technological capability.

Liaison

Serves as organization spokesperson on advanced projects and/or programs. Acts as advisor to management and customers on advanced technical research studies and applications.

Work Products (Examples may include but are not limited to)

Performs Failure Analysis (FA), Construction Analysis (CA), Chemical Analysis and conducts re-verification investigations utilizing the necessary electrical tests and measurements, plus many of the advanced analytical techniques of physics, metallurgy and chemistry. May be required to perform special assignments and/or supervise and lend technical direction to subordinate quality/reliability personnel. May perform other assignments which are related to the work of the Product Assurance function. Determines and establishes product assurance requirements and costs for assigned project. Develops methods and procedures to meet the project quality requirements and develops quality data using standard techniques. Assures proper preparation of Product Assurance instructions to advise all concerned parties of these requirements.

Minimum Education and Experience

14 - 19 years with BS; 12 - 17 years with MS; 9 - 14 years with PhD; 9 - 14 years with JD; 4 - 8 years with MD; 4 - 8 years with DVM