

Structural Engineer: Structural Engineer III

Analyzes, researches and develops structural engineering specifications involving metals and non-metallic or composite structural materials for product design. Develops specifications for operation of product to include structural, mechanical, hydraulic, electrical, power plant, armament, heating and ventilating equipment and maintenance designs. Analyzes damage tolerance, durability, design allowables and structural modeling. Specific structural engineering specialties may include dynamics and loads, stability and stress fatigue and thermal analysis. Tools utilized may include CATIA, IDEAS, ProEngineer and a variety of software applications.

Discretion/Latitude

Works under only general direction. Independently determines and develops approach to solutions. Work is reviewed upon completion for adequacy in meeting objectives.

Knowledge, Skills, & Abilities

Complete understanding and wide application of technical principles, theories and concepts in the field. General knowledge of other related disciplines.

Problem Solving

Provides technical solutions to a wide range of difficult problems. Solutions are imaginative, thorough, practicable and consistent with organization objectives.

Impact

Contributes to the completion of specific programs and projects. Failure to obtain results and/or erroneous decisions or recommendations would typically result in serious program delays and considerable expenditure of resources.

Liason

Frequent inter-organizational and outside customer contacts. Represents the organization in providing solutions to technical issues associated with specific projects.

Minimum Education and Experience

5-8+ years with a BS in designated Engineering or a related field.