Structural Engineer: Structural Engineer IV

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
Work is performed without appreciable direction. Exercises some latitude in determining technical objectives of assignment. Completed work is reviewed for desired results.

Knowledge, Skills, & Abilities
Applies technical expertise and has detailed knowledge of other related disciplines.

Problem Solving
Develops technical solutions to complex problems that require the regular use of ingenuity and creativity.

Impact
Plans and conducts assignments, generally involving the larger and more important projects. Erroneous decisions or recommendations would typically result in failure to achieve major contract objectives.

Liason
Represents the organization as the technical contact on contracts and projects. Interacts with external personnel on technical matters often requiring coordination between organizations.

Minimum Education and Experience
8-10+ years with a BS in designated Engineering or a related field.