

# Structural Engineer: Structural Engineer I

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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 closely supervised. Follows specific, detailed instructions and/or guidance from more senior functional staff.

## **Knowledge, Skills, & Abilities**

Limited use and/or application of basic technical principles, theories and concepts to specific job assignments.

## **Problem Solving**

Develops solutions to routine technical problems of limited scope by following standardized practices and procedures.

## **Impact**

Contributes to the completion of routine technical tasks. Failure to achieve results can normally be overcome without serious effect on schedules and programs.

## **Liason**

Contacts are primarily with immediate supervisor, project leaders, and other professionals in the section or group.

## **Minimum Education and Experience**

0-2+ years with a BS in designated Engineering or a related field.