

CAREER

# STRUCTURAL ENGINEER

Structural engineers are the backbone of architectural projects, ensuring the safety and durability of structures. They analyse and design the structural components of a building to withstand both the loads and forces acting upon it.

## WHAT DOES THIS JOB INVOLVE?

### Structural analysis

Analyzing and designing structures to withstand loads

### Blueprint interpretation

Reading and interpreting construction plans

### Material selection

Choosing appropriate materials for construction

### Calculations

Performing calculations to determine load-bearing capacities

### Safety compliance

Ensuring structural designs meet safety codes and regulations

### Quality control

Inspecting and evaluating construction work for structural integrity

### Consultation

Collaborating with architects, builders, and other professionals

### Project management

Overseeing structural aspects of construction projects

### Approval

Signing off on construction drawings during the design phase and after the build to ensure compliance with all standards and specifications

## HOW DO I GET INTO THIS CAREER?

Becoming a structural engineer usually starts with earning a Bachelor of Engineering degree, specialising in structural.

## SALARY EXPECTATIONS

Low \$97,024

Average \$131,057

High \$184,539

## RECOMMENDED TRAINING

BACHELOR OF CIVIL ENGINEERING

GRADUATE STRUCTURAL ENGINEER (4 YEARS)

MASTER OF ENGINEERING

While studying, it's a good idea to gain real-world experience through internships or part-time jobs in engineering.