

# Mechanical/Structural Engineering

## Boeing Engineering Intern Program

	Responsibilities	Preferred Majors	Available Sites*
<b>Mechanical</b>	<ul style="list-style-type: none"> <li>Develops, integrates and documents mechanical, fluid system, and thermal environment requirements</li> <li>Develops and maintains the mechanical, fluid systems, component and installation designs using 3-D Computer Aided Engineering tools</li> <li>Provides product definition to other engineering groups, production operations, suppliers and customers throughout the product lifecycle.</li> </ul>	Engineering Majors: Mechanical, Aerospace, Aeronautical	Huntsville, AL; El Segundo, CA; Huntington Beach, CA; St. Louis, MO; Oklahoma City, OK; Ridley Park, PA; Potomac Region; Houston, TX; Seattle, WA area
<b>Structural Design</b>	<ul style="list-style-type: none"> <li>Develops, integrates and documents structural requirements</li> <li>Develops, maintains and modifies structural and component designs, using 3-D CAD tools</li> <li>Provides product definition to other engineering groups, production operations, suppliers and customers throughout the product lifecycle.</li> </ul>	Engineering Majors: Mechanical, Aerospace, Aeronautical	
<b>Structural Analysis</b>	<ul style="list-style-type: none"> <li>Develops, integrates and documents structural requirements to establish the system design</li> <li>Guides product design and verifies structural integrity by using analytical methods, finite element models/simulations and other analysis tools throughout the product lifecycle</li> </ul>	Engineering Majors: Mechanical, Aerospace, Aeronautical, Civil	
<b>Manufacturing</b>	<ul style="list-style-type: none"> <li>Integrates producibility and manufacturability knowledge, information and requirements into the manufacturing phase of the program</li> <li>Conceptualizes and designs the program architecture for build.</li> <li>Develops advanced manufacturing and engineering technologies</li> </ul>	Engineering Majors: Mechanical, Aerospace, Manufacturing	
<b>Liaison</b>	<ul style="list-style-type: none"> <li>Develops solutions to product/process issues for production or technical in-service issues.</li> <li>Assists with the design of interim structural repairs to restore damaged structure to original design strength capability.</li> </ul>	Engineering Majors: Mechanical, Aerospace, Manufacturing	
<b>Tooling</b>	<ul style="list-style-type: none"> <li>Develops requirements and structural designs that translate into factory hardware tooling structures.</li> <li>Develops concepts, designs and analyzes factory equipment and tools to produce aerospace products.</li> </ul>	Engineering Majors: Mechanical, Aerospace, Manufacturing	
<b>Payloads</b>	<ul style="list-style-type: none"> <li>Documentation of structural and interior payload system requirements to establish the system design.</li> <li>Development, maintenance and modification of payload system and component designs</li> <li>Test to validate and verify systems and components meet requirements and specifications.</li> </ul>	Engineering Majors: Mechanical, Structural, Aero, Civil	
<b>Product Support</b>	<ul style="list-style-type: none"> <li>Research engineering drawings, maintenance documents, supplier and airline data to develop engineering data that ensures the capability of spare part products and services throughout the airplane lifecycle.</li> </ul>	Engineering Majors: Mechanical, Aeronautical/ Aerospace, Civil/Structural, Electrical	Seattle, WA area