Boeing Engineering Intern Program—Mechanical and Structural Engineering

	Primary Responsibilities	Preferred Majors	Available Sites*
Mechanical/Structural Systems Design and Analysis	▪ Develop, integrate, and document mechanical, fluid system, and thermal environment requirements. ▪ Develop and maintain the mechanical, fluid systems, component, and installation designs using 3D computer-aided engineering tools. ▪ Provide product definition to other engineering groups, production operations, suppliers, and customers throughout the product life cycle.	Mechanical, Aerospace, Aeronautical	Huntsville, AL; El Segundo, Huntington Beach, and Palmdale, CA; St. Louis, MO; Oklahoma City, OK; Ridley Park, PA; North Charleston, SC; Potomac region; Houston, TX; Mesa, AZ; Seattle, WA, area
Structural Design	▪ Develop, integrate, and document structural requirements. ▪ Develop, maintain, and modify structural and component designs using 3D CAD tools. ▪ Provide product definition to other engineering groups, production operations, suppliers, and customers throughout the product life cycle.		
Structural Analysis	▪ Develop, integrate, and document structural requirements to establish the system design. ▪ Guide product design and verify structural integrity by using analytical methods, finite-element models and simulations, and other analysis tools throughout the product life cycle.	Mechanical, Aerospace, Aeronautical, Civil	
Manufacturing	▪ Integrate producibility and manufacturability knowledge, information, and requirements into the manufacturing phase of the program. ▪ Conceptualize and design the program architecture for build. ▪ Develop advanced manufacturing and engineering technologies.	Mechanical, Aerospace, Manufacturing	
Liaison	▪ Develop solutions to product and process issues for production or technical in-service issues. ▪ Assist with the design of interim structural repairs to restore damaged structure to the original design strength capability.		
Tooling	▪ Develop requirements and structural designs that translate into factory hardware tooling structures. ▪ Develop concepts and design and analyze factory equipment and tools to produce aerospace products.		
Payloads	▪ Document structural and interior payload system requirements to establish the system design. ▪ Develop, maintain, and modify payload system and component designs. ▪ Test to validate and verify that systems and components meet requirements and specifications.	Mechanical, Structural, Aerodynamics, Civil	Seattle, WA, area
Product Support	▪ Research engineering drawings, maintenance documents, and supplier and airline data to develop engineering data that ensure the capability of spare part products and services throughout the airplane life cycle.	Mechanical, Aeronautical/ Aerospace, Civil/Structural, Electrical	

*Site availability is subject to change.