Mechanical/Structural Engineering Internship Opportunities

	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 lifecycle.	Mechanical, Aerospace, Aeronautical	Huntsville, Al.; El Segundo, Huntington Beach, Palmdale, Ca.; St. Louis, Mo.; Oklahoma City, Ok.; Ridley Park, Pa.; Charleston, S.C.; Potomac region; Houston, Tx.; Mesa, Az.; Seattle, Wash. 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 lifecycle.	Mechanical, Aerospace, Aeronautical	
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 lifecycle.	Mechanical, Aerospace, Aeronautical, Civil	
Manufact-uring	▪ 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.	Mechanical, Aerospace, Manufacturing	
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.	Mechanical, Aerospace, Manufacturing	
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 systems and components meet requirements and specifications.	Mechanical, Structural, Aero, Civil	Seattle, Wash. area
Product Support	▪ 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.	Mechanical, Aeronautical/ Aerospace, Civil/ Structural, Electrical	Seattle, Wash. area

*Site availability is subject to change.