## Flight Engineering Internship Opportunities

		Preferred Majors	Available Sites*
Aero- dynamics	<ul> <li>Develop new and improve existing technologies, tools and processes to enhance technology readiness, improve vehicle performance, and reduce cycle time and cost.</li> <li>Develop test requirements (e.g., wind tunnel, ground, flight, accident and incident and product support testing of aerodynamics or aeroheating and thermal characteristics) of flight vehicles.</li> </ul>	Mechanical	Huntsville, Al.; Mesa, Az.; Southern California; Potomac region; Seattle, Wash. area
Air Breathing	<ul> <li>Define requirements for propulsion systems, auxiliary power systems, and vehicle fuel and tank systems.</li> <li>Define, coordinate and control the functional and physical interfaces between the propulsion system and the vehicle.</li> <li>Document configurations and designs of propulsion subsystems and components.</li> <li>Estimate or calculate system performance by use of various testing, analysis, modeling and simulation tools.</li> </ul>		
Weight and Mass Properties	<ul> <li>Develop weight, balance and mass properties data, and define requirements.</li> <li>Provide vehicle or system configuration guidance.</li> <li>Estimate, calculate, measure and verify mass, weight, stiffness and inertias of components, assemblies and completed vehicles or systems.</li> <li>Develop and maintain weight, balance and mass properties accounting systems and generate weight and balance reports.</li> </ul>		
Acoustics	<ul> <li>Define basic test programs for research in acoustics and apply acoustic analytical techniques to determine suppression system program results and adequacy to meet specified and regulatory noise requirements.</li> <li>Design basic structural, airframe, nacelle and component elements of flight vehicles.</li> </ul>		
Configur- ation and Integration	<ul> <li>Synthesize conceptual and preliminary aerospace and/or aeronautical vehicles and support multidisciplinary design cycle analysis and configuration data.</li> <li>Design vehicle configuration from customer requirements; document trade studies, baseline management and change control.</li> </ul>		
Flight	<ul> <li>Define and integrate vehicle performance characteristics to meet mission performance requirements, including full product life cycle from initial vehicle concept definition, through design, test, validation and in-service support.</li> </ul>		
Guidance, Navigation and Control	<ul> <li>Evaluate system-level requirements to support flight control and mission or trajectory requirements definition.</li> </ul>		