AERONAUTICAL ENGINEER

Job Description:

**Aeronautical engineers** design, develop, manufacture, maintain and modify military and civil aircraft, aeronautical components and associated systems. Aeronautical engineers use their technical knowledge to improve flight safety and fuel efficiency, reduce costs and address the environmental impact of air travel. They also work with aircraft that operates in space such as robots and satellites.

Job Responsibilities:

* assessing design requirements
* agreeing budgets, timescales and specifications with clients and managers
* undertaking theoretical and practical research
* producing and implementing designs and test procedures
* measuring and improving the performance of aircraft, components and systems
* assembling the aircraft or fitting components
* testing, evaluating, modifying and re-testing products
* writing reports, manuals and documentation
* providing technical advice
* investigating the causes of plane, ship, or other vessel crashes
* analyzing and interpreting data.
* Formulate conceptual design of aeronautical or aerospace products or systems to meet customer requirements.
* Direct and coordinate activities of engineering or technical personnel designing, fabricating, modifying, or testing of aircraft or aerospace products.
* Develop design criteria for aeronautical or aerospace products or systems, including testing methods, production costs, quality standards, and completion dates.
* Plan and conduct experimental, environmental, operational and stress tests on models and prototypes of aircraft and aerospace systems and equipment.
* Evaluate product data and design from inspections and reports for conformance to engineering principles, customer requirements, and quality standards.
* Formulate mathematical models or other methods of computer analysis to develop, evaluate, or modify design according to customer engineering requirements.
* Write technical reports and other documentation, such as handbooks and bulletins, for use by engineering staff, management, and customers.
* Analyze project requests and proposals and engineering data to determine feasibility, cost, and production time of aerospace or aeronautical product.
* Review performance reports and documentation from customers and field engineers, and inspect malfunctioning or damaged products to determine problem.
* Direct research and development programs.
* Evaluate and approve selection of vendors by study of past performance and new advertisements.

Job Qualifications:

* Bachelors in aeronautical engineering or related field from an ABET-accredited engineering program
* Masters in aeronautical engineering or related field from an ABET-accredited engineering program preferred
* Experience as an aeronautical engineer

Opportunities as an aeronautical engineer are available for applicants without experience in which more than one aeronautical engineer is needed in an area such that an experienced aeronautical engineer will be present to mentor.

Job Skills Required:

* Resourcefulness
* Verbal and written communication skills
* Research skills
* Analytical skills
* Team work skills
* Ability to interpret data
* Organizational skills
* Ability to prioritize
* Strong problem solving skills
* Ability to view things from new and different perspectives