

Cirrus Employment Opportunities



DULUTH ENGINEERING

POSITION (Number of Openings)	SHIFT	DEPARTMENT	STATUS	DATE
Avionics & Electrical Engineer (2)	Days	Systems Engineering	Full Time	01/22/10
Sr. Avionics & Electrical Engineer (1)	Days	Systems Engineering	Full Time	02/01/10
M&P Test Lab Technician (1)	Days	Airframe Engineering	Full Time	03/02/10
Manufacturing/Tooling Engineer (1)	Days	Manufacturing Engineering	Full Time	03/03/10

Avionics & Electrical Engineer: Responsible for the research, design, development, integration, installation, testing, and certification of aircraft avionics/electrical systems. Includes integration of flight instruments, avionics, communication, navigation, engine management, safety systems, and entertainment, as well as power distribution and management. Qualifications: Bachelor's degree in Electrical Engineering or equivalent. Experience in the layout, planning, installation, maintenance, and troubleshooting of electrical systems. Avionics systems integration and certification experience preferred. Aircraft systems design experience preferred. Experience in aircraft, automotive or consumer electronic design and integration. FAA certification experience preferred. Experience with Autocad, Microstation, OrCAD, and Pro Engineer.

Sr. Avionics & Electrical Engineer Design lead for a design team performing system integration of avionics and electrical components for general aviation aircraft. Components include electrical systems, batteries, alternators, flight instruments, autopilots, motor controls, antennas, and navigation systems. Work closely with vendors defining requirements and evaluating system performance to company goals. Designs specialized electronics for system control and pilot interfaces. Generates documentation of design and integration details for FAA certification. FAA certification lead for the group. Qualifications: Bachelor's degree in Electrical and/or Computer Engineering or equivalent required. Eight plus years experience in aircraft integration, avionics design, or aircraft electrical system design preferred. FAA certification experience preferred. FAA Designated Engineering Representative (DER) status or ability to quickly receive authorization preferred.

M&P Test Lab Technician Works within the Materials and Process (M&P) Test Lab to efficiently develop and certify the materials and processes needed to fabricate next generation aviation products. Technicians will fabricate, bond and assemble composite and non-composite test panels, machine into specimens and test per standard test methods. Read, interpret and work from standardized and developmental test procedures, engineering and assembly drawings, specifications, and process instructions to determine fabrication and assembly sequence, mold and tooling requirements, measurements, methods, and allowable tolerances. Operate test and machining equipment (mechanical test machine, oven, furnace, tile saw, surface grinder, microscope, etc.) Document test processes, data, conclusions and communicate results. Qualifications: High school diploma or equivalent. Capable of interpreting engineering drawings as well as the ability to follow written and verbal instructions. Proficient with Microsoft Office and the ability to learn additional testing and equipment software as needed.

Manufacturing Engineer Responsible for working with a team of Product Design, Tooling, Quality, and Industrial Engineers to create a complete process for production of composite aircraft. Confers with designers to evaluate and select design details in concert with a manufacturing process. Outlines the manpower, space and equipment requirements for the process. Works with Tooling Engineers, purchasing and vendors to create or

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acquire all necessary equipment and tooling. Works with planning to create work instructions. Coordinates with Industrial Engineers and facilities personnel to create the necessary factory space. Participates in team based product design reviews. Tracks and reports on all pertinent manufacturing metrics during product and process development including performance to schedule and budget. Performs PFMEAs and brings DFM principles to bear during product development. Responsible for initial process completion and performance as required to meet Cirrus specifications and FAA Production Certificate demands. Qualifications: Bachelor's degree in Engineering and 4-15 years of related experience; or 6-12 years related experience and/or training; or equivalent combination of education and experience. Experience with aircraft fabrication desired. Experience with composite tooling and manufacturing preferred. Good analytical abilities and project coordination. Excellent communication and team work skills. Experience with metal machining, forming, riveting and coating. Experience with composite fabrication techniques including wet layup, prepregs, RTMs, winding and tape laying. Proficient with Microsoft Office. Experience with CAD is required, ProE preferred.

Tooling Engineer Responsible for working with Design, Process and Manufacturing Engineers to create coordinated part and tool designs. Performs and oversees tooling design and fabrication for aircraft parts and assemblies. Uses manual drafting and CAD programs to produce drawings and models of tools. Directs tool designers to complete detail CAD designs. Manages tool requirements, schedule and budget. Responsible for all tool documentation, including certification, maintenance manuals, and work orders. Oversees tool fabrications from CNC and manual machining of steel, aluminum, foams, plastics and composites. Tools include molds for composite parts, drill fixtures and assembly fixtures. Performs tool assessments including safety, ergonomics, adherence to required takt times, PFMEAs and other risk analysis. Procures tools and equipment from outside sources as required through the use of RFQs, SOWs and similar documents. Leads tool design reviews. Coordinates use of company resources and outside vendors to achieve schedule and cost targets for tool fabrication. Responsible for measurement and inspection of tools and part/assembly first articles. Qualifications: Bachelor's degree in Engineering and 2-5 years of related experience; or 6-12 years related experience and/or training; or equivalent combination of education and experience. Experience with aircraft fabrication desired. Experience with composite tooling and manufacturing preferred. Good analytical abilities and project coordination. Excellent communication and team work skills. Experience with metal machining, forming, riveting and coating. Experience with composite fabrication techniques including wet layup, prepregs, RTMs, winding and tape laying. Experience with manual milling, lathe, welding, drilling, cutting, CNC milling of metals required. CNC milling of foams and tooling boards and subsequent finishing of pattern surfaces experience preferred. Experience with large scale electronic inspection preferred. Proficient with Microsoft Office. Experience with CAD is required, ProE preferred.

Cirrus gives special consideration to qualified internal applicants interested in promotion, as well as transfer opportunities consistent with the best interest of the organization. An employee transferring to another position in a different job category will be subject to a new introductory period. Employees interested in applying for other positions within the company are encouraged to do so with the understanding that qualified applicants from outside of Cirrus will also be considered.

**Cirrus Aircraft is an Equal Opportunity Employer
www.cirrusaircraft.com | Jobs Line: 218-788-3200
4515 Taylor Circle Duluth, MN 55811**