

PROJECT ENGINEER, HYBRID AIRCRAFT RETROFIT

Company Overview:

Ampaire is a tech startup based in California that is leading the charge in electric aviation. We're on a mission to provide the world with electric commercial flights that are affordable, quiet, and environmentally conscious. We're building the future of air travel, are reimagining the way people and their things fly. We are a practical and lean start-up that quickly iterates and learns, and this has allowed Ampaire to be among the first of the electric aviation companies to actually fly. We currently are flying what we believe to be the world's largest electrified aircraft by weight and capacity.

We're located at the intersection of aerospace and electric vehicles, right next to SpaceX and Tesla at Hawthorne Airport in Los Angeles County. As part of Starburst, the world's top aerospace accelerator, we have access to an international support network. We're proud to have won multiple international awards as a Top Aerospace Startup (Hello Tomorrow, Paris), Top Electrification Startup (New Mobility Challenge, Los Angeles), and IEEE N3XT Stars. We've also been featured in Aviation Week for our creative business approach and early success. Our talented team brings a diverse background from top institutions including: Caltech, Stanford, USC, Northrop Grumman, SpaceX, Virgin Orbit, and General Motors.

Job Description:

Ampaire is seeking an experienced Lead Powertrain Systems Engineer to help develop our aircraft retrofit products. In this role, working with the multidisciplinary engineers throughout the organization, you will: be the lead architect and owner of the system engineering processes for a MW class series hybrid electric aircraft powertrain; Collaborate with other engineering disciplines on developing project objectives; Develop and memorialize high level requirements; Oversee decomposition of requirements and linking through the systems engineering process (in Jama) to verification/validation activities including generation of all required artifacts in accordance with industry best practices and FAA regulations; Oversee systems development planning, hardware and software integration and verification/validation activities; Oversee system modeling and simulation, optimization, system dynamics, systems analysis, statistical analysis, reliability analysis, and risk analysis.

PROJECT ENGINEER, HYBRID AIRCRAFT RETROFIT

Required Qualifications:

- + BS in Aeronautical, Mechanical, Electrical, Software or Mechatronics Engineering
- + 10+ years of increasing responsibilities in aircraft system engineering
- + Extensive experience with multiple disciplinary projects.
- + Fundamental understanding of every key aircraft technical discipline (configuration, aero, systems, propulsion, structures, software/avionics, flight test, manufacturing)
- + Minimum 5 years hands-on experience in machine, hardware and/or software systems engineering
- + Demonstrated expertise with ARP 4754 process oversight
- + Familiar with DO254, D0178 and D0160
- + Experience with defining processes, procedures and tools used for electrical system and software system development, validation, integration, and verification.
- + Experience with full product development life cycle
- + Strong working knowledge of system integration and verification activities; including requirement validation reviews, test procedure development, automated test development and execution, and verification coverage analysis
- + Experience using requirements management software. Jama experience preferred.
- + Familiarity with FAA certification per Part 23
- + Familiar with aircraft performance and flight mechanics modeling tools and methods
- + Demonstrated strong strategic thinking and communication skills
- + Demonstrated strong decision-making skills
- + Demonstrated ability to effectively present information and respond to questions from groups of managers and general users
- + Demonstrated ability to work with all levels of the organization to achieve organizational objectives
- + Able to read, analyze, and interpret technical data
- + Able to write in a clear and concise manner
- + Able to effectively present information and respond to questions from other departments.
- + Able to actively participate in multi-disciplined functional teams
- + Able to communicate project status updates in a team environment
- + Proficient with Microsoft Word, Excel, Powerpoint, Visio and Project. Proficient with PLM and requirements management tools.
- + Able to effectively plan, organize and complete work with minimal supervision
- + Able to communicate complex technical information to other departments and functions

PROJECT ENGINEER, HYBRID AIRCRAFT RETROFIT

- + Comfortable working in a matrix organization
- + Highly motivated to provide project deliverables on time and be able to establish priorities when multiple deliverables coincide
- + Interest and ability to contribute to evolving work processes

Desired Qualifications:

- + Advanced degrees In Engineering
- + Familiar with electric powered vehicle design including control systems, battery systems (Lithium based chemistries), and battery management systems
- + Experience with FAA Certification of electrical and avionics systems per Part 23
- + Expert user of Jama requirements management tool
- + Oversee successful FAA Certification activities per Part 23
- + High Voltage experience
- + Familiar with gas turbine engine controls and performance
- + Familiar with electric motor design and control
- + Familiar with traction battery BMS systems

Benefits:

- + 401k
- + Health + Dental + Vision insurance
- + Aviation Enthusiast Benefit credit

Equal Opportunity Employer:

At Ampaire, we are committed to building a more inclusive ecosystem that integrates women, people of color, and other underrepresented groups into the cleantech sector and aerospace industry. We strongly encourage applications from qualified applicants and members of underrepresented groups.

Ampaire is an Equal Opportunity Employer; employment with Ampaire is governed on the basis of merit, competence and qualifications and will not be influenced in any



3507 Jack Northrop Ave.
Hawthorne, CA 90250

PROJECT ENGINEER, HYBRID AIRCRAFT RETROFIT

manner by race, color, religion, gender, national origin/ethnicity, veteran status, disability status, age, sexual orientation, gender identity, marital status, mental or physical disability or any other legally protected status.