

SENIOR BATTERY MECHANICAL ENGINEER

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:

We're looking for a senior-level mechanical engineer to join our battery systems team. You will lead component requirements development, design, analysis, and development and test activities for the battery systems team at Ampaire. You will work with other engineers to solve over-constrained multidisciplinary problems and decide how to optimize designs for a specific application. You will also work directly with component suppliers and external testing facilities.

Experience Level:

5+ years of experience

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Specific Responsibilities:

You will be responsible for the mechanical performance of the battery system:

- + Requirements and certification plan development and execution
- + Aircraft structural integration to meet certification requirements, e.g. RTCA DO-160G
- + Battery module structure
- + Integration of necessary components and features to meet thermal runaway requirements per RTCA DO-311A
- + Component design as required

You will be responsible for manufacture of the battery system prototypes:

- + Manufacturability of components and systems
- + Prototype assembly line and equipment

Required Qualifications:

- + An undergraduate degree or higher in Mechanical Engineering. Similar degrees may be acceptable given sufficient experience.
- + The ability to work in the United States.
- + You have a proven track record of rapid, efficient project execution in a fast-paced environment
- + You have experience working with a team of engineers to design, iterate, and make trade-offs between various design disciplines
- + Good written and verbal communication skills in English
- + Strong interpersonal and organizational skills
- + You are a self-starter, are deeply motivated to achieve big dreams, and are passionate about our shared mission
- + Your experience includes working with or testing 400 V + battery packs for electric vehicles or aerospace applications
- + You have good understanding of lithium ion battery thermal runaway prevention
- + You have excellent knowledge of lightweight structural design

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Desired Qualifications:

- + Experience includes aircraft or spacecraft battery packs, and/or other aerospace industry experience
- + Experience with electric vehicle battery pack design
- + Has worked in an agile hardware development
- + Experience with CAD software
 - Siemens NX strongly preferred
 - Solidworks
- + Experience with Jama Connect requirements management

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 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.