

## SENIOR BATTERY THERMAL 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 thermal engineer to join our battery systems team. You will be responsible for the analysis, design, and procurement of the battery thermal management system, including the interface to the battery cells and the airframe integration. This position reports to the Lead Battery Pack Engineer.

### Specific Responsibilities:

#### **You will own the battery thermal management system:**

- + Ensure necessary simulation and analysis is performed, leading internal resources and external contractors as appropriate

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- + Ensure the system meets performance and integration requirements, such that the battery system is certifiable to e.g. RTCA DO-160G and RTCA DO-311A
- + Manage the design scope to select off the shelf components where appropriate
- + Ensure Ampaire-designed components are manufacturable
- + Procure all system components

## 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
- + You have developed electronics cooling systems from scratch
- + Full understanding of tradeoffs in manufacturing methods of cold plates and heat exchangers
- + Full understanding of tradeoffs between liquid, air, and phase-change thermal management systems

## 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
  - o Siemens NX strongly preferred
- + Experience with CFD software
- + Experience with Jama Connect requirements management

**SENIOR BATTERY THERMAL ENGINEER****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.