

MECHANICAL DESIGNER (MCAD)

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:

Performs detailed design of structural, mechanical, and electrical (bus bars, wiring) components including their installation into aircraft using state of the art computer aided design tools. Performs basic analyses for form, fit and function using appropriate tools. Creates and releases detail drawings in accordance with ANSI Y14.5 and internal standards. Performs DFM and GD&T analyses and presents the results to engineering leads. Creates and maintains large assemblies within a parametric CAD environment and PLM system.

Required Qualifications:

+ BS Aeronautical or Mechanical Engineering or AS +10 yrs experience

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- + 5+ years expert working knowledge of parametric computer-aided design software (NX preferred)
- + Demonstrated experience with PLM systems
- + Demonstrated strong strategic thinking and communication skills
- + Demonstrated strong decision-making skills
- + 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 parametric 3D CAD including solids, complex surfaces, parts, assemblies and drawings
- + Able to effectively plan, organize and complete work with minimal supervision
- + Able to communicate complex technical information to other departments and functions
- + 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
- + Passionate about engineering software applications and process improvements

Desired Qualifications:

- + 10+ years expert working knowledge of computer-aided design software
- + Expert user of Siemens NX CAD
- + Expert user of PLM systems (Siemens Teamcenter preferred)
- + Experience with aircraft structural and systems designs and drawings
- + Experience with aircraft wiring design and drawings
- + Experience with high voltage power electronics for vehicle propulsion

Benefits:

- + 401k

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- + 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.