MECHANICAL ENGINEER at VERDEGO AERO

VerdeGo Aero is an aircraft propulsion technology company committed to powering the highest performance electric aircraft of all sizes. The VerdeGo team is passionate about enabling hybrid-electric powerplants to create a next generation of flying machines. This is not an incremental change but rather the 3rd major revolution of aircraft propulsion in the 120-year history of powered flight, disrupting the industry in ways not seen since the advent of the jet engine 75 years ago. Innovations in propulsion always lead to step changes in aircraft design. Aircraft and missions that were previously only seen in Sci-Fi fiction like flying taxis and airliners that take off vertically are becoming a reality through environmentally friendly high performance hybrid systems. VerdeGo's hardware centric, reality bound philosophy has already delivered flight ready systems for R&D flight test applications. VerdeGo is one of the few companies in this technology space that has both product-based customer revenue and strategic investment. VerdeGo Aero's headquarters is at the "World's Most Famous Beach", in warm and relaxed Daytona Beach, Florida. Daytona Beach is the home of the Daytona 500 NASCAR race, bike weeks, jeep week and the collegial environment of the largest university focusing on aviation and aerospace, Embry-Riddle Aeronautical University.

MECHANICAL ENGINEER

The Mechanical Engineer will be part of a small nimble team with significant responsibility, autonomy, and authority. This team of passionate engineers will be creating the hybrid tech for novel 3rd generation electrified aircraft propulsion systems. This position will cover all aspects of mechanical design engineering from creative sketches on the whiteboard through Solidworks CAD, calculations, component test and refinement. VerdeGo bases our hybrid designs on existing engines, so engine-related work is focused on accessories and interface components. The heart of our technology is driveline and the responsible application of electric motor/generators with associated mechanical and electrical dynamics challenges, and advanced thermal management concepts with a constant focus on achieving the minimum weight and highest performance possible. The mechanical engineering group is closely tied to the controls and electronics groups. The ability to adapt, learn, and apply new systems level technology and design thinking is critical.

Day-to-day activities may include developing requirements based on customer input and VerdeGo tribal knowledge, CAD design of components and assemblies, engineering analysis using hand calculation, software-based engineering tools including finite-element methods and developing prints for outside component manufacture. The successful mechanical engineer will be comfortable reaching out by phone or video to key suppliers, discussing requirements and design adaptation. Engineers will receive and inspect parts, work with technicians through integration, and may participate in testing. Component manufacturing processes include sheet metal fabrication, CNC machining, 3D printing, and advanced composite techniques. Our engineering efforts offer freedom as we create novel systems but are always guided by established aviation standards as we seek to scale into manufacture of FAA certified hybrid product families. Communication skills include the ability to rapidly and accurately express complex concepts to colleague engineers and non-technical folks alike.

RESPONSIBILITIES:

- To be able to work in small nimble teams of engineers.
- To be able to independently identify problems, apply critical thinking to develop first principles solutions, test solutions and evaluate outcomes with access to mentoring subject matter experts.
- To be able to pivot from project to project and adapt to constantly evolving technology environment.
- To be able to multi-task across several technology platforms.
- To be able to communicate complex concepts with both technical and non-technical colleagues.
- To be able to add to a positive workplace environment.

MINIMUM QUALIFICATIONS:

- An accredited bachelor's degree in Mechanical or Aerospace Engineering.
- Working knowledge of Solidworks or similar CAD application, some experience with finite-element analysis methods, SMath or similar computational applications.
- Experience with design of mechanical systems, strong understanding of applying fasteners and other joining techniques, knowledge of machining and other manufacturing processes to enable effective component design.
- Experience with the application of sensors and processing of resulting data for decision-making.

- The ability to meet ITAR required authorizations.
- A desire to enable the next generation of novel aircraft.
- Writing and documenting

EXTRA CREDIT TRAITS (you should have a couple and identify those):

- An accredited master's degree in Mechanical or Aerospace Engineering.
- A working knowledge of Matlab, Simulink, and/or LabView.
- Experience with design and fabrication of composite structures
- Training in GD&T for advanced specification of manufacturing prints
- Experience in part inspections including surface plate and/or CMM arm
- Programming experience in C++, Python, Java, and other object-oriented languages.
- Experience with certification of aviation products, exposure to FAA AC 43.13 or similar
- FAA ratings to include DER, Pilot and/or Mechanic.

EXPECTED TRAITS AFTER SIX MONTHS

- The ability to envision the future of hybrid aircraft propulsion systems in your purview and to apply historical lessons learned while not being tethered to the past.
- The ability to work with an independent spirit in a small team with access to mentoring of subject matter experts.
- An excellent interpersonal relationship with team members and team leaders.
- The desire and ability to contribute significantly to solving complex problems.

WE ARE REDEFINING HYBRID ELECTRIC PROPULSION

Some of our competitive benefits package includes:

The option to participate in VerdeGo Aero’s stock options program

- The option to participate in VerdeGo Aero’s stock options program
- Medical, dental, and vision insurance
- Three weeks of vacation for newly hired employees
- Generous 401(k) plan that includes employer matching funds
- Tuition reimbursement program
- Student Loan Repayment Program
- Birth, adoption, parental leave benefits
- And more!

Nothing matters more to VerdeGo Aero than our strong ethical and safety commitments. As such, all U.S. positions require a background check, which may include a drug screen.

Note:

- Background check and drug screen required (every external new hire in the U.S.)
- Drug Screen only performed on re-hires who have been gone for more than 1 year

ITAR Requirements

- To conform with International Traffic in Arms Regulars (ITAR), you must be a U.S. citizen or a lawful permanent resident of the U.S., protected individual as defined by 8 U.S.C. 1324b(a)(3), or actively working towards obtaining the required authorizations from the U.S. Department of State.

Apply now and be part of the team that's powering the electric flight revolution!

VerdeGo Aero, Inc. is An Equal Opportunity/Affirmative Action Employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability or veteran status, age, or any other federally protected class.

Send Resumes and Application Inquiries to:

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