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## Controls Engineer

### Description

Windlift's mission is to produce energy for a sustainable civilization, which we believe is the defining challenge of our time. Our approach harnesses wind energy using 90% less material than traditional turbines and will cut the cost of wind energy in half. We have successfully demonstrated the core technology and are expanding our team to:

- Produce a fully functioning tech demonstrator
- Develop a production-ready design for our early-adopter government customers
- Design, build, and test a commercial offshore system

We're hiring multiple **Controls Engineers** at different education and experience levels. As a controls engineer you will model components of the airborne power generator, develop and test control algorithms in simulation, update the simulator and autopilot software as required, and support flight testing. You:

- Have a BS in an engineering field, and 2 years of experience working with control systems or a higher degree,
- Have a strong background in control theory,
- Have a working knowledge of modelling and simulating dynamic systems,
- Can read, modify, and debug software (C++ & MATLAB),
- Have experience with embedded systems or flight controllers,
- Love to work on difficult problems, build cool things, experiment at the edge of what is possible, learn new skills, and share your experience with the team, and
- Look forward to working with a diverse team of engineers, builders, dreamers, and doers.

The ideal candidate will also have experience with some of the following:

- Ardupilot software,
- Communications and electrical integration for sensors (such as RTK GPS, IMU, or LiDAR) and actuators (servos, motor controllers), including protocols such as UAVCAN, CANopen, and RS 485,
- Kalman filtering / sensor fusion,
- Flight mechanics and aerodynamics,
- Source code management tools, and
- RC flight such as piloting, operating drones, writing preflight checklists, etc.

This is an incredible opportunity to join Windlift at an inflection point in growth and make a real contribution to our mission of producing energy for a sustainable civilization.

We cultivate a culture of inclusion for all employees that respects their individual strengths, views, and experiences. We believe that our differences enable us to drive innovation, make better decisions, and accomplish extraordinary things.

### Employment Type

Full-time

### Job Location

Durham, NC

### Date posted

August 4, 2023

### Base Salary

\$ 85000 - \$ ?

Medical, dental and vision benefits are provided. Windlift is located close to Raleigh, Durham, Cary, and Research Triangle Park, NC, all of which are great places to work, live, and play.