

Position Title / Department	Location	Reports to
Senior GNC Engineer / Engineering	Colorado Springs, CO, USA (on-site)	VP of Engineering
Employment Status	FLSA Status	Effective Date
<input type="checkbox"/> Temporary <input checked="" type="checkbox"/> Full-Time <input type="checkbox"/> Part-Time	<input type="checkbox"/> Non-Exempt <input checked="" type="checkbox"/> Exempt	Immediately

### Company Description

PteroDynamics Inc. designs superior autonomous vertical takeoff and landing (VTOL) aircraft systems that fly faster and go farther to reach remote locations without runways, even in harsh conditions. PteroDynamics' Transwing® aircraft is unlike any other VTOL system, performing like a great fixed-wing aircraft with superb VTOL capabilities. Transwing aircraft unfold their wings to transition smoothly and quickly between vertical and horizontal flight, overcoming limitations inherent in other VTOL designs by combining the speed, range, and endurance of fixed-wing aircraft with superior VTOL performance in an efficient, highly automated platform. The Transwing is ideal for automating time-sensitive delivery of critical high-value payloads to hard-to-reach locations, including maritime logistics support, payload delivery to remote locations without airstrips, and reconnaissance and surveillance. Seeing is believing. Visit [PteroDynamics.com](http://PteroDynamics.com) for details and videos.

### Position Summary

PteroDynamics is searching for a talented senior guidance, navigation, and control (GNC) engineer to join a growing team developing control systems for the transwing platform. The role spans optimisation, simulation and flight test of existing transwing platforms as well as development of new variants.

### Essential Duties and Responsibilities

The essential functions include, but are not limited to the following:

- Participating in and leading GNC-related design requirements development
- Analysis, test, and troubleshooting of control system hardware and software subsystems
- Analysis of systems and flight test data to support model improvements and root cause investigation of failures and anomalies
- Aircraft controls system modeling and parameter identification from flight data
- Software development, test and verification
- Onsite support of flight test operations

### Minimum Qualifications

- BS/MS in Aerospace Engineering or related engineering field and a minimum of 10 years of prior relevant experience in GNC, flight testing and systems engineering
- Experience developing control laws for unmanned aircraft or similar with a high degree of autonomy
- Understanding of traditional fixed-wing, helicopter and multirotor flight dynamics

- Familiarity with inertial navigation systems concepts and techniques
- Experience with hardware-in-the-loop (HWIL) testing
- Proficient in MATLAB
- Capable of identifying and solving complex problems with little to no supervision or direction
- US Citizenship/Permanent Resident Status
- Ability to travel up to 20% within southern Colorado

### **Other Qualifications & Desired Competencies**

- BS/MS in Aerospace Engineering with controls, dynamics or simulation focus
- Monte Carlo and/or 6DOF simulation
- UAS design, built and test experience
- Avionics and embedded systems design experience
- Knowledge of satellite guidance and control
- Operational experience with any commercial or government/military UAS platform
- Experience with Python
- FAA Part 107 Remote Pilot Certificate
- FAA Private/Commercial/Instrument/CFI/CFII or equivalent

### **Company Values**

#### Framework for our Values:

- People
- Excellence
- Accountability
- Knowledge

#### People: We value relationships with our colleagues and customers while embracing and upholding the worth of every individual

- Trust - we push down responsibility in decision making to the lowest level that makes sense, while maintaining accountability
- Respect - we always maintain respect for ourselves and others
- Communication - we encourage open communication and respect for all perspectives
- Enjoyment - together, we create an environment that is fun and enjoyable

#### Excellence: We have a mindset of excellence at all times

- Pursuit of Excellence - we are passionate about our work and strive for superior outcomes at all times
- Incremental Approach to Success - We agree that bringing our best each day is important and that incremental improvement matters
- Willingness to listen and learn - we believe success requires remaining humble, having an open mind, and listening to constructive input
- Coaching - being a great teammate includes a willingness to be coached and taking the time to help others achieve excellence
- Measuring Success - we measure our success not only by how much money we make but also by the satisfaction of our workforce and the value of the solutions we bring to the world

#### Accountability: We believe the foundation of trust is accountability

- Collaboration - we recognize that our success depends on how well we work together

- Personal Responsibility - we believe in holding ourselves accountable, starting with self-accountability, and including accountability to co-workers/teammates, and ultimately to our customers and our shareholders
- Consistency - our happiness, productivity and ultimate success all require consistency from subordinates and managers alike
- Professionalism - we believe that our attitude and approach to our work and how we handle ourselves are crucial and will be recognized by our peers and our customers
- Courage - we do what is right and are not tempted to create shortcuts, avoid hard work, or do the wrong thing because it is easy or expeditious
- Merit - hard work is recognized and rewarded

Knowledge: We believe that innovation and success depend on gaining, documenting and sharing knowledge

- Knowledge Gain - we remain inquisitive and seek data and information to gain and build knowledge
- Knowledge Sharing - we believe in the open sharing of information rather than having it exist in silos`
- Knowledge Documentation - we believe that insights gained during the process of research and development and from feedback from customers and other stakeholders must be documented so that others may understand and build upon those insights
- Customer Needs - we can only provide a superior solution if we truly understand the needs and requirements of our customers

### **Compensation**

Salary Range: \$130,000 - \$170,000 annually DOE

### **What We Offer**

At PteroDynamics, you will have the opportunity to make a significant impact on the future of aerial technology through creativity and innovation. The company offers a comprehensive compensation package, which includes a competitive salary, stock options, company-sponsored medical insurance, dental, vision, term life insurance with an AD&D rider, 401(k) plan with up to 3% matching by the company, long-term disability, paid time off, paid holidays, paid sick time, and a collaborative inclusive working environment in an exciting, growing startup company.

### **Note**

This job description in no way states or implies that these are the only duties to be performed by the employee(s) incumbent in this position. Employees will be required to follow any other job-related instructions and to perform any other job-related duties requested by any person authorized to give instructions or assignments. All duties and responsibilities are essential functions and requirements and are subject to possible modification to reasonably accommodate individuals with disabilities. To perform this job successfully, the incumbents will possess the skills, aptitudes, and abilities to perform each duty proficiently. Some requirements may exclude individuals who pose a direct threat or significant risk to the health or safety of themselves or others. The requirements listed in this document are the minimum levels of knowledge, skills, or abilities. This document does not create an employment contract, implied or otherwise, other than an "at will" relationship.

PteroDynamics is an Equal Opportunity Employer, drug-free workplace, and complies with ADA regulations as applicable. If you're ready to join us in reshaping the future of UAVs, we encourage you to apply for this position and bring your unique technical brilliance to our team.

### **How to Apply**

Submit resume to [careers@pterodynamics.com](mailto:careers@pterodynamics.com)