



STAFF AERODYNAMICIST

ABOUT MightyFly

Do you want to change the world? MightyFly is creating the future of logistics with autonomous cargo aircraft. Our mission is to provide rapid and efficient access to goods. Join the MightyFly team and help us change the world.

MightyFly is a leader in the logistics revolution. Existing logistics infrastructure is time and resource intensive. We are building the future of logistics with autonomous eVTOL cargo aircraft with a cargo capacity of 100 to 500 pounds and a range of 600 miles. Our logistics service aims to streamline business to business expedited delivery, providing door to door deliveries to our target customers in less time and lower cost than conventional logistics. MightyFly's just-in-time logistics using unmanned aircraft will fundamentally transform how goods move around the globe.

ABOUT THE ROLE

MightyFly is looking for a seasoned aerodynamicist to join our small but highly capable team. This will be a staff level position overseeing and conducting all cradle to grave development relative to vehicle aerodynamics. Specific tasks will include conceptualization and brainstorming within a multidisciplinary team, detailed design, loft generation, and aero analysis of elements of experimental aircraft such as fuselages, wings, tails, control surfaces, air intakes, internal electrical cooling, parasitic elements, etc. Additional tasks will include developing aero databases and predicting aircraft performance. Candidates should have a strong mastery of fluid fundamentals tempered with an applied real world industry experience of best practices for small aircraft. The strongest candidates will have a mastery in one or more CFD packages and experience with wind tunnel models and flight test data correlation. The position includes the opportunity to advance into a lead role managing a growing team.

WHAT YOU'LL DO

- Design aircraft architecture, configuration, and lofts
- Specify wing sizes, select airfoils, size control surfaces, select propellers, define air intake and exhaust ports, etc.
- Determine aircraft performance and conduct sensitivity studies
- Create aero databases for flight control, based on needs from the GNC team
- Define and conduct aerodynamic test programs
- Work with airframe and GNC teams to develop efficient holistic aircraft designs



WHAT YOU'LL BRING

- General
 - A personal drive to build systems from the ground up
 - A strong interest for tackling and solving complex problems
 - Self-directed/self-starter with the ability to work and thrive in a dynamic and fast-paced environment
- Minimum Technical Requirements
 - Bachelor's degree in aeronautical/aerospace engineering or physics
 - 10+ yrs aerodynamic industry work designing fixed wing aircraft or eVTOLs
 - Proficiency with a Computational Fluid Dynamics software package
 - Proficiency with a Computer Aided Design package
 - Proficiency with general purpose modeling and data processing codes
- Planning & Partnering
 - Ability to plan and deliver on time
 - Organizational Skills
 - Excellent communication skills
- Nice to have
 - Master's degree in aeronautical/aerospace engineering or physics
 - 15+ yrs aerodynamic industry work designing fixed wing aircraft or eVTOLs
 - Familiarity with aviation certification standards & processes
 - Experience specifying instrumentation/sensors
 - Experience specifying allowable steps and gaps in the outer mold line
 - Experience locating static and ram air pressure ports
 - Experience with flutter analysis and testing
 - Familiarity with Internal combustion engine cooling and aspiration needs
 - Familiarity with air cooling of electric motors and electronics

WHAT ELSE YOU NEED TO KNOW

MightyFly is only able to sponsor TN visas and H1B visa transfers for this position at the present time.

Equal opportunity:

MightyFly is an equal opportunity employer and prohibits discrimination and harassment of any type. We do not discriminate based upon race, religion, color, national origin, sex (including pregnancy, childbirth, reproductive health decisions, or related medical conditions), sexual orientation, gender identity, gender expression, age, status as a protected veteran, status as an individual with a disability, genetic information, political views or activity, or other applicable legally protected characteristics.

Diversity:



MightyFly values diversity and welcomes applications from those who are traditionally underrepresented in the tech industry. We are an international team, led by a female CEO.

Job Location:

- Bay Area.
- Work will be on site.

Culture:

- We are aviation and aerospace enthusiasts who believe the sky is *not* the limit.
- **Teamwork:** We believe that to achieve great results we need great teamwork.
- **Working hard:** Building reliable aviation and logistics products is really hard but also exciting, challenging, and rewarding.
- **Having fun:** We believe that hard work needs to be coupled with fun. We love hanging out beyond the workday, hosting team dinners, and organizing fun activities. We love the outdoors and outdoor sports. And of course, we love flying.
- **Celebrating wins large and small.**
- **Creativity.** We love and encourage creativity. The best ideas emerge when our working environment fosters out-of-the-box thinking.
- **Equity, inclusivity, and respect** for the diversity of life and work experiences that each individual brings to the team.
- **Transparency, honesty, and integrity.**

Benefits:

- Competitive health, dental, and vision insurance
- 401k Plan
- Commuter benefits
- Complementary in office meals and snacks
- Unlimited paid time off
- Stock option/equity plan

APPLY

Email a copy of your resume and a brief introduction about yourself to jobs@mightyfly.com.