

Profile - Aerospace Design Intern

About CDSpace

CDSpace is a leading UAV Technology startup building the next generation of Drones for Logistics and Defence applications. We are the first company to execute India's first BVLOS medical drone delivery in 2019. At CDSpace, we specialize in Aerospace design, Avionics and Composite Fabrication to bring out the best in class products. We have superb in-house design and development facilities, which very few companies have. With our passion for deep tech, we envision developing truly reliable solutions for long-distance logistics and high-performance Defense UAVs.

About the Role

As an Aerospace Intern, you will be contributing to designing high-performance aerial vehicles. Your work will translate to real aircraft for challenging applications that will create real impact. We are looking for passionate, energetic, smart engineers and creative thinkers to push the limits of unmanned aviation. You'll be working directly with the top brains of the industry in this quest for a world-class product.

How you will make an Impact

- You will be establishing overall aircraft configuration performing derivations and relevant trade studies based on given mission requirements.
- Calculations for Aircraft flight performance, structural integrity, design optimisation of aircraft.
- Work closely with other engineering teams, including design, manufacturing and Avionics, to build a state of the art Aerial System.
- Assist in technical documentation, generating IP and establishing company standard practices.

What are we looking for

- Good grasp of basic concepts in Aerospace and/or Mechanical Engineering.
- Proficient in Matlab or python.
- Good command in Engineering Physics (Kinematics and Dynamics).
- Ability to solve theoretical engineering calculations and translate them to computer code.
- Ability to understand and implement technical literature.
- Fortright sense towards mathematics and number crunching
- Solid and intuitive grasp of engineering.
- Prior experience with XFLR-5, X-Foil, AVL or other similar analysis software.

What makes you a good fit for the role

- Enthusiastic and passionate about Aerospace and Unmanned Systems.
- Problem-solver attitude, a tint of humor, attention to detail and self-starter.
- Knowledge of Aircraft structures, basic Aerodynamics, Flight Mechanics, basic Propulsion, Helicopter theory, Aircraft Design is a plus. Working knowledge of CFD/FEA/FEM is a bonus.
- Experience in Aeromodelling, Robotics, Engineering competitions, Composites, etc., is highly acknowledged.

Location - Bangalore

Stipend - Rs 25000 per month