



### **Job Description - Senior Aeromechanical Engineer**

An exciting opportunity has arisen to join Evolve Dynamics as a full-time Senior Aeromechanical Engineer, based at our workshop near Farnham, Surrey.

Evolve Dynamics is at the forefront of research, design and development of next generation UAS/UAV systems for the industrial, security & defence sectors.

Our mission is to develop autonomous/semi-autonomous, highly capable, and best in class UAV solutions.

We design and manufacture aircraft, ground control systems, camera/additional payloads and software. Our client base has grown 500% in the last 12 months and includes police forces, the military, fire services and search & rescue teams.

If you're looking for a role in which you will be able to contribute innovative ideas, learn from a dynamic and experienced team, and be challenged on a daily basis, then this is the job for you!

We are looking for highly motivated individuals who can think creatively, independently identify areas for improvement, tackle potential barriers to progress and propose solutions. The successful candidate will be responsible, thorough and accountable with a sharp eye for detail.

Salary negotiable, depending on experience and achievements.

#### **Duties**

- Define hardware requirements and perform system level design
- Collaborate closely with product managers, software, and other mechanical engineers to evaluate and optimise designs for customer needs, reliability, and ease of deployment into the field
- Lead the development cycle of various aeromechanical systems and subsystems to meet performance requirements. This includes architecture definition, conceptual and preliminary design, prototype, analysis and finally production readiness
- Take ownership of hardware development from requirements elicitation to production sign-off
- Follow rigorous testing protocols, creating testing documentation and test designs
- Build and maintain detailed components CAD models and assemblies, generating BoMs and technical drawings along
- Apply DFM principle at the early conception stage

## Competencies

- Proficiency in CAD, preferably SolidWorks
- Knowledge of additive and subtractive manufacturing processes
- Materials Engineering understanding for common aerospace materials: carbon fibre, aluminium, 3D printed materials
- Knowledge of flight dynamics applied to multicopters
- Understanding of aerodynamics
- Understanding of electric motor propulsion
- Understanding of control theory and its application in the context of UAVs
- Understanding of electromagnetics as part of collaborative work with electrical engineers
- Understanding of product design and release cycles
- Preferred: experience with designing for, and testing, flying systems

## Responsibilities

- Managing your own time and tasks (within YouTrack/Jira)
- Providing regular progress updates to the rest of the team
- Support the R&D team in any tasks and duties that could utilise your skills
- Support the wider business in any other tasks and duties deemed reasonable with respect to your role
- Collaborative design, prototyping and analysis to a safe and high standard

## Hours

This is a full time position, based in our workshop near Farnham, Surrey. Hours are 0900 to 1730 Monday to Friday.

## Salary

A very competitive salary will be paid for the position, dependent on experience.

## Benefits

- 25 holiday days annually
- Participation in company's pension scheme (SmartPension)
- Support with training including paid study days and contribution to qualifications
- Eligible for company-wide bonus scheme
- Free snacks and drinks in the office
- Regular paid-for social events
- Evolve swag!

## Find out more

Interested candidates are welcome to get in touch to arrange an informal conversation before applying. Please email [careers@evolvedynamics.com](mailto:careers@evolvedynamics.com) referencing the job title.

## How to apply

Only applications made by email will be considered. To apply, please send a copy of your CV together with a covering note describing why you would like to work for Evolve Dynamics and what makes you suitable for the role to the CEO, Mike Dewhirst, at [careers@evolvedynamics.com](mailto:careers@evolvedynamics.com). Please also link any relevant design portfolio you have.

Applications will be considered on a rolling basis. The start date will be as soon as possible.

Discover more at [www.evolvedynamics.com](http://www.evolvedynamics.com).