

January - 2020

JOB OFFER

Description: Systems/Flight Vehicle Engineer

About Pangea Aerospace:

Pangea Aerospace is one of the most promising space start-ups in Europe and we are developing disruptive technologies for rocket launchers. The growing market of small satellites increases the need of low-cost access to space, and, at Pangea Aerospace we build the technology to contribute to this goal. We have patented a ground-breaking technology to recover and reuse the launch vehicle and we are developing a first-of-its kind space propulsion system.

We are highly motivated team and we are looking for open-minded, pragmatic and detail-oriented colleagues that want to create the new generation of technologies for rockets. We are looking for people who want to work in a high-tech and fast-growing company and that want to get things done. We offer very attractive job conditions and responsibility to the right candidates.

You will be joining an international team supported by a top advisory board and strong network of partners.

Headquarters are based in the innovation district of Barcelona (Poblenou – 22@), surrounded by international workers from all over the world.

Department: Recovery and Return-To-Base (RRTB)

Position: Flight Vehicle Engineer

Duration: Full-time position

Location: Poblenou, Barcelona

Starting Date: Q1 2020

Responsibilities:

Supporting and leading the work for the launcher recovery system development. You are expected to take a leading role as the main systems engineer for Pangea Aerospace's novel recovery system. Therefore, you must be completely comfortable with working independently and taking independent decisions. You will have to define your own work and determine which additional tools, if any, are needed in order to perform your work. You will be the main coordinator at the company regarding systems engineering for the recovery system, and as such you will have to guide the development of the system to a high degree. This position is considered a high-level

and managerial position at Pangea Aerospace, and you should have had some years of experience of systems engineering at a relevant company beforehand.

The responsibilities will include, among others:

- Lead the vehicle concept development considering an overall system perspective.
- Keep track of overall system parameters, such as mass, CoG, expected cost etc. and make sure they are in line with the requirements.
- Define the vehicle/system and subsystem requirements based on the mission objectives, including functional, performance, design and operational requirements.
- Keep track of the verification status of the system and subsystem requirements and define the proper verification tests to be performed.
- Support the creation of CONOPS documents and other technical documentation.
- Direct the recovery engineering team and harmonize their work by providing them with the necessary requirements/inputs.
- Lead the work to integrate the results of the recovery engineering team to a functional whole, also taking into account secondary factors such as maintainability, logistics, reliability etc.
- Take responsibility for the functional development of the entire system, and make sure that the ultimate product will satisfy all requirements.
- Validate the suitability of the design concept in regard to the requirements.

Required profile:

- Master's degree in aerospace engineering or related field
- 4+ years experience within the industry
- Experience of systems engineering, preferably for flying vehicles or launch vehicles
- Good understanding of Flight Mechanics & Atmospheric Flight
- Programming skills in e.g. Python / Matlab / Octave, or in a similar high-level language
- Knowledge of Supersonic Flight
- Understanding of GNC / Control theory
- Understanding of Solid Mechanics
- Knowledge of hypersonics and/or aerothermodynamics is meritorious

Other desired competencies:

- Experience in working with VTOL vehicles and/or reentry vehicles
- “Hands-on” experience with development of flying vehicles
- Capable of working in a flexible and open-minded environment
- Start-up mindset
- Creative and with experience in overcoming failure

Benefits:

We offer competitive salaries. The salary can be negotiated according to the experience of the candidates.

How to apply: CV has to be sent to career@pangeaaerospace.com. Do not hesitate to also include a cover letter. Please include the offer description “Systems/Flight Vehicle Engineer” in the title.