

Launch Complex Software Architect

Details of the offer

Type of contract : Full-time

Location: Paris area, travels in France and French Guiana

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Contact : contact@spacedreams.com

SpaceDreamS

SpaceDreamS aims to become the first company to develop and operate spaceports and launch complexes. It is currently the only private company in Europe aiming at this goal.

Our central concept is interoperability: a launcher should not be a captive customer of a spaceport, and vice versa. We have two main areas of work: on the launcher side, we are developing the *mupad* (Mobile Universal Pad), a unique solution that allows several launchers or launcher elements to be used at several different locations and in several life phases; and on the launch base side, we are developing a catalog of services for the *spaceport of the future*, with a radically different vision of the services offered by current spaceports.

The first element of the *mupad* under development is the LoxBox, which is a self-contained liquid oxygen refueling system suitable for multiple launch vehicles. The LOXBOX can also be used during the ground test and qualification phases of equipment such as tanks or rocket engines. We have already convinced several partners to integrate the LOXBOX into their technology roadmaps.

Job Description

You will hold a central role in the technical direction of SpaceDreamS activities.

You lead all software development activities of the *mupad* project. You are responsible for the design and development of the application programming interface (API) allowing various launchers to call *mupad* services.

You design and develop the *mupad* control architecture and the internal application software to implement these services while meeting performance, reliability and cyber security requirements. You develop and implement the simulation means of the *mupad* processes.

You work with customers to provide them with your technical expertise and to collect their needs.

You supervise the implementation and ensure compliance with the system requirements, the drafting of which you share with the fluid expert and the mechanical expert.

You participate in the system qualification of the *mupad* and in the tests with the customers.

You will also participate in the development of the Spaceport's services catalog.

You rely on the company's internal skills and external collaborations that you coordinate to achieve the objectives that you set with the company's management.

Experience and skills

You have extensive experience in launch vehicle ground segment and launch vehicle operations.

You have a sharp system vision.

You are used to conducting iterative developments, sometimes starting from scratch.

You have demonstrated technical skills in the following areas: real-time control, software development, software architecture design, industrial process control, application software development and validation, software configuration management.

You have demonstrated skills in development and test team management.

Plus:

- Experience in the world of startups or company creation
- Knowledge of the Guiana Space Center
- Risk analysis (operational safety and cybersecurity)
- Skills in the field of real-time simulation
- Fluency in English

[We offer](#)

Compensation commensurate with your skills and the key position you will hold within the company

Extra-legal benefits

Effective and simple health insurance

Possibility of working from home

An opportunity to participate in the company's capital

Bonuses based on the achievement of objectives

[Interested?](#)

Send your CV and cover letter to: contact@spacedreams.com

We will contact you