



SPACEPORT SYSTEM ENGINEER

Details of the offer

Internal reference: E020_EN

Type of contract : Full-time

Location: Massy (Paris area), frequent travels in France, Europe and French Guiana

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Contact : contact@spacedreams.com

SpaceDreamS

As spaceport architect, Spacedreams develops turnkey solutions and services for small launchers and launch bases.

The main concepts are: the NuPad, a modular multi-launch mobile launch pad; and the TwinPad, the first digital twin of an interoperable launch system. Based on these concepts, Spacedreams develops innovative solutions for its customers.

The NuPad is the world's first modular, multi-launcher mobile launch base. Different modules integrate services dedicated to launchers: fluid, electrical and mechanical. These modules are assembled and configured according to mission or customer requirements.

The TwinPad is the digital twin of the ground launch system. It enables virtual commissioning and software development for launch vehicle and launch pad implementation, as well as simulation of cryogenic fluid, electrical and mechanical processes. The TwinPad can be used to virtually design and qualify the means and implementations of different launchers on different launch pads and offer an anticipated user experience as close to the real thing as possible.

SpaceDreamS studies and develops ground facilities for several mini and micro launchers, as well as for major institutions. Spacedreams is the winner of several BPI calls for projects, and of the European Commission's EuBEST project, aimed at developing the first modular multi-engine test bench at industrial rate.

The team

You'll be joining a small, multidisciplinary team of mainly technical experts based in Massy and Toulouse.

We attach great importance to cordiality, solidarity, passion, responsiveness, and resourcefulness.

We speak and write in French and English.

Job description

As Spaceport System Engineer, you will participate in the system engineering of internal and customer projects:

- System requirement, user requirement and mission requirement specification, sometimes from scratch
- Implementation specifications for launcher resources and services
- Technical system specifications, interface specifications, test specifications
- Operational risk analysis, failure mode analysis
- Follow-up of sub-system developments, modeled on the TwinPad or real systems
- System testing and qualification

You carry out prospective studies for future projects:

- Anticipating the evolution of land, offshore and extraterrestrial launch bases, analyzing trends and issues, drafting strategic technical and economic notes
- Participation in think tanks on the spaceports of the future

You work under the authority of the CTO.

Experience and skills

You are a generalist engineer or specialized in complex systems engineering.

You are versatile and curious and enjoy solving problems in original ways. You are in a constant training.

You have significant experience in conceptualizing and specifying complex systems, taking into account the interrelationships between technical, human, economic, environmental and strategic issues. You can carry out functional and risk analyses independently. You have experience in implementing or conducting qualification tests on complex systems.

You have excellent verbal and written skills. You can elicit and verbalize the needs and problems of your partners.

The following points are considered favourably:

- Experience in Model-Based System Engineering
- Experience in the field of launcher and/or cryogenic fluid implementation
- Experience in Industry 4.0 and PLM
- Experience in simulation and digital twins
- Fluency in french

We offer

In addition to outstanding professional experience, we offer :

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