

Experienced engineer – Space Systems Engineering

Full-Time position from March 2024

Paris, France

About ArcSpace:

ArcSpace is a space industry startup whose mission is to accelerate the development of a new generation of space infrastructure, through the development of technologies enabling in-orbit structures assembly. Supported by CNES, ESA and multiple European partners, this solution has the potential to radically change the way space systems are designed and to enable unparalleled spacecraft performance and cost as well as pave the way for new applications such as Space-Based Solar Power and lunar infrastructure.

Job description:

As part of a ramp-up of its activities, ArcSpace wishes to strengthen its Engineering team to accelerate R&T activities, Preliminary Projects and Industrial Development actions. Responding to the needs of industrial and government customers, you will be responsible for the development of new system architectures integrating ArcSpace's proprietary in-orbit assembly technologies.

In collaboration with the Engineering team, the CTO and the CSO, your main responsibilities include:

- Engage and coordinate with contractors and customers to manage system technical baseline, perform analysis and studies in response to internal & external customer needs, resolve technical issues.
- Perform technical planning, system integration, verification and validation, evaluate alternatives including cost and risk through trade-off analyses, supportability and analyses for total systems from Phase 0 to Phase B.
- Operational documentation creation, modification, and review including proposals, MDR, SRR, PDR, CDR, TRR.
- Ensure research and development (R&D) efforts are planned and conducted on a sound engineering basis including management of technical risks.
- Coordinate the design and development of HW and SW components based on technical and programmatic requirements.
- Explore and develop new missions, operational concepts (CONOPs), mission threads, and architectures to solve some of the hardest intelligence and defense problems.
- Communicate results to internal and external stakeholders.

This position is based in Paris, France.

Your profile:

Formal training in STEM, you have at least 5 years of experience in space system design and space systems engineering, applying engineering principles and techniques to identify and manage system design risks and mature concepts through trade-off analysis.

- Experience in structural, thermal, and electronics performance analysis is a must.
- Experience with space development life cycle events (Proposal, MDR, SRR, PDR, CDR, TRR).
- Demonstrated ability to lead cross-functional payload design projects for space systems.
- Ability to work in a team centered around a commonly shared objective.
- Demonstrated ability to work in autonomy and critically define/reassess target milestones.
- Experience in ComSat and RF engineering appreciated.
- Very good command of English and French (technical writing ability).
- CAD (SolidWorks) and programming languages (e.g., Matlab, Fortran, Python) knowledge appreciated.

Why work at ArcSpace:

- Company values: Fairness – Efficiency – Teamwork – Excellence
- Significant and visible personal contribution to a high-impact societal & environmental space project
- Work within the Paris-Saclay campus-cluster, the leading R&D center in France
- Autonomy in work and diversity of tasks
- Package of fixed income + equity
- One day of teleworking per week, flexible hours

Overview of the recruiting process:

- Send your resume & motivation email/letter to Guillaume.mohara@arc-space.com
- 30 min video interview with Guillaume, co-founder and CEO
- Physical interview and technical discussion with the CEO and CSO
- Background check