Senior Flight Dynamics Product Engineer

2021 Permanent contract (CDI) – Paris Region

Engineer / Scientist / PhD
To start as soon as possible.

Who are we?

Share My Space is a startup of the New Space poised to become a global leader in the Space Situational Awareness market. Our current activities range from telescope observations to on orbit collision risk predictions, business intelligence and space surveillance for commercial and governmental satellite operators.

We are looking for a Flight Dynamics Product Engineer to extend our offer to a complete space traffic management service.

Job description

The new recruit will be in charge of flight dynamics services at Share My Space. Based on our technical and scientific skills in celestial mechanics and computer sciences, she/he will consolidate our understanding of key flight dynamics service features for satellite operators and develop relevant software to provide this type of service.

The ambition of Share My Space is to offer a full service of flight dynamics to its customer, capitalizing on its competitive advantage in the field of conjunction screening, risk assessment and space traffic management.

A) **Management**
   1) Manage a technical team for algorithm and software development and participate in the recruitment process;
   2) Contribute to product design and evolution;
   3) Organize product development in coordination with the software development team, company director and the celestial mechanics team;
   4) Prioritize the development of key features.

B) **Engineering**
   1) Define the technical requirements for the new service based on the needs of large customers;
   2) Review existing concepts and software in the field of operational flight dynamics;
   3) Implement and test key features such as automated maneuvers in a simulated environment and on the spacecrafts of customers;
   4) Aggregate orbital data from various sources, including operator data and optical observation data;
   5) Participate in observation campaigns and operational service operation.

Experience and Qualification

- You have a solid background in celestial mechanics and aerospace engineering with a master's degree or PhD in the relevant fields and at least 2 years of experience;

- You have some relevant programming experience in Python and at least one other programming language;
- You have the spirit of a pioneer and a creative mindset;
- You have experience in satellite control operation;
- You have very strong team management skills;
- You have excellent oral and written communication skills both in French and English.

Your advantages

- Work within a young and dynamic team with flexible schedule and large growth opportunity
- Partial refund of your public transport expenses
- Salary: 40 – 80k€ to be negotiated depending on the profile
- Access to company capital to be discussed

Recruitment process

- Send your CV and cover letter at contact@sharemyspace.global
- 20 min phone interview
- 2 x 45 min physical interviews

Contact

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