Ground Segment Engineer
Temporary position - 12 month [asap - Decembre 2022]

Context

ISAE-SUPAERO is an international leader for higher education and research in aeronautics and space. The CREME project aims at designing and building a flight model of a 3U CubeSat nanosatellite. This CubeSat will carry a radiation monitor payload designed and developed by ONERA. The partners of this FEDER Region Occitanie project are ONERA, ISAE-SUPAERO, both founding members of the Toulouse University Space Center (CSUT) and project leaders, and 3 Small and Medium Enterprises (SMEs) in the space field (3D Plus, EREMS and TRAD). In the framework of this project, ISAE-SUPAERO is recruiting a Flight Software / Embedded Systems Engineer for the DCAS technical team.

Job description

The objective of this position is to participate in the development of the CREME Ground Segment. In concrete terms, the tasks of the position will consist of designing, developing, integrating and validating the CREME ground segment. Traditionally, a ground segment is decomposed into three components: a control center, a ground station and a mission center. In the CREME project, Onera is responsible for the mission center and ISAE-SUPAERO for the other two components, but must also ensure the coherence of the whole.

The tasks to be carried out by the jobholder will therefore consist of defining, implementing and running the CREME control center functionalities in accordance with the mission specifications and in cooperation with the project team; defining and assisting with the implementation of the necessary network architecture in cooperation with the ISAE-SUPAERO IT services; to define and ensure the coherence of the interface between the control center, the ground station and the mission center, in cooperation with Onera.

The person recruited will work in collaboration with the technical teams of the institute and one of the challenges of the position is to guarantee the sustainability of all this work for future nanosatellite ground segment projects.

Training and **skills**:
- Master 2 or equivalent degree
- Specialization in computer science or telecommunications
- Good knowledge of software development (C, C++, Java, Python, web technologies, etc.)
- Knowledge of space ground segments and system specifications or space systems
- Ability to implement a hardware architecture in support of application software and systems integration within a project team

Optional Strengths:
- basis in Radio Signals
- experience in space engineering, design or development on CubeSat projects.

Salary and benefits

The proposed salary ranges from 33 000 to 39 000 € gross per year (index of the civil service 590 to 700) depending on experience. The work week is 40 hours, and the agent has 25 days of annual has 25 days of annual leave, 9 days of RTT, plus 20 days imposed by the by the establishment. Remote work is possible up to 1 floating day per week.

Application

Please indicate "[creme] application - Ground Segment Engineer" in the subject line of the email, and attach your resume and a cover letter if you wish to apply. Put in recipient the two contacts:

Jérôme Puech : jerome.puech@isae-supaero.fr

Thibault Gateau : thibault.gateau@isae.fr