POSITION : Space Thermal & Mechanical Architect Engineer

DETAILS

Position type : full-time/CDI

Starting : September 2018

Salary : depending on experience

Location : South of Paris or Toulouse, France

ABOUT EXOTRAIL

Exotrail is a French start-up based in Ecole polytechnique in France. We are part of the *New Space* global movement that is disrupting the space industry. In the past 10 years, the cost of access to space has been divided by 1000. Private companies are investing billions of dollars to develop constellations of small satellites to deliver Internet everywhere, IoT communication or very high revisit rate Earth observation services.

Our vision at Exotrail is to help building an agile space. We are developing propulsion and operation technologies for these small satellites. Our small propulsion system is the smallest Hall Effect Thruster in the world. Thanks to our electric propulsion system and our unique operation software, small satellites can change their orbit after launch. With this new agility, they increase their performance while lowering their costs.

We believe that this is only the beginning and that small satellites equipped with propulsion will be able to deliver new space services to entirely disrupt the space industry by being able to service, repair, assemble and manufacture spacecrafts directly in orbit. Join us and be part of our great ambition !

JOB DESCRIPTION

- You will be responsible of the complete thermal and mechanical design for all Exotrail space hardware products.
- You will be in charge of the delivery, the development and the updating of thermal and mechanical models (both detailed and reduced), based on in-house or subcontracted development (on a case by case basis).
- You will especially work to improve the thermal management of Exotrail thrusters' plasma chambers, cathodes and DC/DC converters.
- You will be involved in various phases: in orbit demonstration, product development, customers order
- You will define, prepare and conduct the tests to be done to validate models and to qualify sub-systems and products (especially thermal vacuum tests).

PROFILE

- You must have an engineering background with a strong experience in satellite system engineering, aerospace engineering. A background in thermal hardware development is also required.
- You should have very good soft and presentation skills (presentations, technical documentation, assumptions, oral presentation). You need to be able to work with a great autonomy. You must have a full proficiency in English or French (both is a plus). You must have very good analysis skills and work efficiently.
- You should be passionate with space and entrepreneurship and be ready to work in a very demanding, evolving and challenging environment – and be ready to propose suggestions and be pro-active!

CONTACT

Send an email at careers@exotrail.com with a CV and a cover letter