RECRUITMENT NOTICE

Role: GNC Engineer

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Workplace: Invernesshire / Forres, UK

Travel: Occasional within Europe

Salary: Negotiable and competitive

Start date: ASAP 2019

We are an international space launch company seeking to hire an experienced guidance, navigation and control engineer to be part of the development team for their small satellite launch vehicle. The role is based in Forres / Inverness at our new manufacturing and engineering centre.

You will work in a collaborative setting with internal and external engineers and partners through all stages of the GNC algorithm development process and flight software implementation. They expect you to be technically well-founded within the field and your qualifications/experience base will likely contain many of the qualities required to fulfil the following responsibilities.

You will be eager for a fast-paced opportunity that offers exceptional freedom and responsibility, as well as the chance to create a critical system on a European space launch vehicle. The system you will work on will be a critical, integral part of the main structure of the launch vehicle.

Your responsibilities will include:-

Lead development and validation of launch vehicle characteristic models.

- Liaison and Orbex project lead with external GNC system and subsystem development partners
- Participate in design, review and test of guidance, navigation, and control algorithms for launch vehicle
- Participate in the development of high fidelity launch vehicle flight dynamics simulator
- Validate and verify GN&C flight software through software-in-the-loop, processor-in-the-loop, and hardware-in-the-loop integration campaigns
- Oversee trajectory safety analysis for launch license acquisition process
- Development and maintenance of launch system FMECA and fault tree analysis
- Support to the company systems engineering group

Requirements:

- MSc degree in aerospace engineering, electrical engineering, control systems engineering, or equivalent experience
- 4-6 years of experience in aerospace or similar environment

- Launch vehicle or spacecraft GNC algorithm development, control of flexible structures, Kalman filtering, trajectory design and optimization
- Modelisation of physical systems
- Dynamic systems, orbital mechanics, control systems, estimation, and software/algorithm development in C/C++/Matlab
- Embedded implementation of GNC algorithms
- Development project management
- Capabilities and operational understanding of navigation system sensors including inertial navigation systems, GNSS receivers, star tracker systems, sun sensors etc.

You will probably have these core attributes:-

- A flexible and dedicated mindset
- Team player
- English language skills

We are looking experienced candidates who can demonstrate they get things done with a pragmatic attitude and reliable results. In this role we expect a lot of practical, hands-on engagement with suppliers and a wide degree of flexibility and responsibility to achieve a specific outcome. Your track record will be important.

For the right candidates we offer a benefits package that includes the opportunity to earn an equity stake in the company.

You must be a European citizen, from a country that is a signatory to the MTCR convention.

You may be required to undergo security screening.

How to apply

Please send your CV to recruitment@orbex.space noting "GNC2019" in your message title.