JAN 2019 SPE2019

RECRUITMENT NOTICE

Role: Senior Propulsion Engineer

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Location: Inverness / Forres, UK

Travel: Occasional within Europe

Salary: Competitive/ negotiable with equity options and relocation assistance

Start date: ASAP 2019

We are an international space launch company recruiting a forward-thinking senior propulsion design engineer for an exciting spaceflight development role based in Forres / Inverness at our new engineering and manufacturing centre.

We are seeking a motivated, highly experienced rocket engine fluid systems design engineer to work on propulsion systems for an orbital space launch vehicle. You will have the opportunity to become an integral part of a senior team of highly dedicated engineers working to develop and implement an entirely novel propulsion system.

You will probably be a highly experienced aerospace propulsion engineer, working in a slow-moving environment that rarely gives you a chance to see your work in action. You will be eager for a fast-paced opportunity that offers exceptional freedom and responsibility, as well as the chance to create a critical component on a European space launch vehicle.

You to be technically well-founded within the propulsion field and your qualifications/experience base will likely contain several of these points:

- Design, analysis, optimization and testing of fluid systems for bi-prop and cold-gas propulsion systems
- Engine-TPA cycle design and optimization
- Propulsion and tank system modelization and software model development
- Two–phase injection optimization
- Combustion processes analysis and modelling
- Iso-valve characteristics design and development/selection
- Microgravity fluid management systems design
- Low-pressure fluid transfer systems design
- Testing / qualification programme development and execution
- Technical support of operational campaigns
- Systems engineering
- Design documentation production

Requirements:

<u>Essential</u>

- Minimum of a bachelor's degree in aerospace engineering or a related field
- Bi-prop rocket engine propulsion experience, pressure fed and closed cycle systems preferable
- Cryogenic propellants, materials compatibility and sealing technology
- Turbomachinery operations knowledge and cryogenic experience preferable
- Designs for cryogenic fluids, including liquid oxygen.
- Fluid system software experience, preferably EcosimPro
- CAD / CFD experience, SolidWorks / Ansys preferred
- Additive manufacturing experience
- Bi-prop/turbomachinery ground testing and qualification including ground support equipment and test facility design

Desirable

- 4-8 years of rocket engine, fluid systems and/or turbomachinery hardware development experience
- Fluency in use of CAD / CFD techniques to model and analyse fluid systems
- Strong communication skills
- A flexible and dedicated mindset

We are looking for experienced candidates who can demonstrate they get things done with a pragmatic attitude and reliable results. Your track record will be important.

For the right candidate we offer an excellent benefits package that includes the opportunity to earn an equity stake in the company plus relocation assistance where appropriate.

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 "SPE2019" in your message title.