



JUNE 2018

TPA2018

RECRUITMENT NOTICE

Role: Turbo-pump Design Engineer (x 2)

We are an international space launch company seeking two forward-thinking propulsion design engineers for exciting spaceflight development roles based in the United Kingdom/Europe.

We are seeking **motivated, experienced rocket engine turbo-pump design engineers** to work on a new class of turbo-pump for an orbital space launch vehicle. The system you design will be a critical, integral part of the main 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.

Start date: July/August 2018

Workplace: UK/Europe

Travel: Occasional within Europe

Your responsibilities will include:-

- Design, analysis and manufacture of a new class of rocket engine turbo-pump
- Integration into main propulsion cycle
- Testing / qualification programme development and execution
- Technical support of operational campaigns

Experience:-

- Bi-prop rocket engine propulsion experience, closed cycle systems preferable
- Cryogenic propellants, materials and sealing technology
- Turbomachinery design experience, cryogenic experience preferable
- Centrifugal pump design, impeller, inducer, volute, bearings, seals and mounts.
- Designs for cryogenic fluids, including liquid oxygen.
- Reaction turbine design and implementation
- CAD / CFD experience, Solidworks / Ansys preferred
- Additive manufacturing experience
- Turbomachinery ground testing and qualification including ground support equipment and test facility design

You will probably have these core attributes:-

- Minimum of a bachelor's degree in aerospace engineering or a related field
- 4-8 years of rocket engine turbomachinery hardware development experience
- Fluency in use of CAD / CFD techniques to model and analysis the system



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- A flexible and dedicated mindset

We are looking 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 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 "TPA2018" in your message title.