



MAY 2019

RFDSDR2019

## RECRUITMENT NOTICE

### Role: Digital RF Design Engineer

#### Digital RF Design Engineer

**Location:** Invernesshire / Forres, UK

**Travel:** Occasional within Europe

**Salary:** Negotiable and competitive

We are hiring a Digital RF Design Engineer for an exciting spaceflight development role based in Forres / Inverness at Orbex's new engineering and manufacturing centre.

We are looking for a Digital RF Design Engineer ideally with space segment experience, to work on the design of RF systems (launch vehicle and ground). The launch vehicle will include several radio transmitters and receivers, covering command uplink, telemetry downlink, video downlink, and GNSS reception. You will be responsible for RF system design, and particularly software-defined radio (SDR) transmitters and receivers. Previous experience with SDR is considered essential.

You might be a highly experienced digital RF 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.

#### Responsibilities for the Digital RF Design Engineer:

- Link budgets, and license applications to governing authorities.
- Procurement and test of transmitter and receiver hardware (launch vehicle and ground)
- SDR configuration and programming, to match RF signals of integrated transceivers.
- Interfacing with external radio ground stations operators, to ensure compatibility between their and our systems.

#### Requirements:

- Minimum of a bachelor's degree in aerospace engineering or a related field
- 4-8 years of hands-on experience with RF system design, development and testing.
- Software defined radio, GNU radio, modulation theory and signal processing.

#### Must be:

- A creative, lateral thinker, able to solve problem pragmatically
- Able to find innovative solutions to complex mechanical and structural problems
- Equipped with a flexible and dedicated mind-set

We are looking for experienced candidates who can demonstrate they get things done with a pragmatic attitude and reliable result. 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.



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You may be required to undergo security screening.

**How to apply**

Please send your CV to [recruitment@orbex.space](mailto:recruitment@orbex.space) reference "RF Designer SDR 2019" in your message title.