

RF System Engineer

Location:	Harwell, Oxfordshire
Responsible to:	Principle Expert Lead - UC directorate
Responsible for:	Embedded software development
Working Hours:	37.5h a week
Contract:	Permanent, 3-month probation and 1 month notice
Holiday:	28 days per annum, plus statutory holidays.
Equal Opportunities:	The Satellite Application Catapult strives to be an equal opportunities employer and commitment to this process will be expected.
Date Written:	01/08/2018

About Us

The Satellite Applications Catapult is an independent technology and innovation company whose purpose is to promote, develop and facilitate the commercialisation and advancement of the satellite applications industry. The company is a not for profit Research Organisation, with a commercial trading subsidiary. The organisation embraces an open and innovative culture, encouraging an ethos of knowledge exchange and sector engagement, and has quickly become a world class centre of facilities and expertise.

We're one of ten "Catapults" launched by the UK's Technology Strategy Board. The aim for each of them is to become a world-leading innovation centre in its own specialist area.

Our Mission

To innovate for a better world, empowered by satellites"

Our Visions

"To be a world-leading technology and innovation company, helping businesses of all sizes to realise the potential from space. By embracing a pioneering, agile, collaborative and entrepreneurial spirit, we create valued partnerships to deliver game-changing results."

Our Culture

The Catapult fosters an open and collaborative culture that stimulates and develops staff and encourages collaboration and innovation. Our employee value proposition is

strong. We have worked hard to create an environment which is dynamic, exciting, challenging, rewarding, flexible and, most importantly, fun

The Role

We're looking for highly motivated RF engineers to help us develop state of the art telecommunication terminals for fixed and mobile solutions. The right candidate should have electronics engineering degree (or similar) and 5+ years industry experience in RF systems design. Your knowledge will specifically include work on Satellite terminals operating in L, S ,Ku,Ka band and RF switching, multiplexing would be advantageous.

You'll be involved throughout the development cycle which will include the evaluation of new technologies, development of new products and ground-breaking novel concepts. We're looking for someone who can apply a thorough engineering approach, is logical, proactive and innovative. The role will require design, test, review skills. It'll be important to integrate effectively with the other team members, be able to break projects down into stages with clear deliverables/dependencies and deliver project work to committed timescales.

Tasks

- COTS RF MMIC components integration and external control (ie. HPA, Phase Shifter, RF switches, multiplexer/diplexer etc)
- Define Test Harness for RF system or subsystem and relevant passive or active Electronic components.
- Characterization and Analysis of performance at system or subsystem , qualify and quantify component selection & design based on performance, cost and quality.
- Input into product or project definition phases.
- Technical lead develop/fabricate prototype embedded PCB boards with BRM, Electronics, RF components
- Supplier engagement as technical lead , supplier or subcontractor selection.
- Support documentation (HLD,LLD ,Function spec's or test plans)

About You

Required Skills and Experience

- Expertise in Electronics / RF / PCB / Chipset system Integration (400Mhz to 30Ghz)
- Experience with Transmission Lines / Microwave /RF passive or active components integration.
- Design, build of breadboard systems and components. (RF subsystem and RF system level)
- Functional Testing, performance Analysis at both system or subsystem level.
- System and Circuit Design and Implementation.

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Desired experience

- Electrical, Thermal & Mechanical modelling
- RF Components Integration.
- Production of test plans test scripts.
- Detailed knowledge of Test and Measurement Equipment (TME) e.g. VNA, FSW, Signal Generator, spectrum analyzer, power meters.

This is an exceptional opportunity If you want to be part of an energetic and creative team, involved in the creation of industry leading technology and products

If you are up for the challenge and thrive in a fast-paced and creative environment, send your CV along with a covering letter to

[careers@ sa.catapult.org.uk](mailto:careers@sa.catapult.org.uk)

Applications closing date

<https://sa.catapult.org.uk/our-culture>