

Embedded System Software 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 engineers to help us develop state of the art telecommunication terminal for fixed and mobile solution. The right candidate should have a computer science/electronic engineering degree (or similar) and 5+ years industry experience in embedded firmware development projects. Knowledge of RF systems and specifically Satellite terminal and RF switching 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 and debugging 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.

About You

Required Skills and Experience

- Relevant experience in software design and development, including previous experience in embedded development gain in terminal or handset product development
- Expertise in C++ and/or other language
- generate automated unit, regression and integration tests
- demonstrate understanding of embedded firmware architecture and be able to balance trade-offs
- Expertise in developing for the Linux environment (core)
- Experience with tools used to debug embedded software including: ICE, JTAG, logic analyzers and protocol analyzers
- write clear, high performance, maintainable code to a deadline.
- Experience in developing interfaces to Microcontroller
- Knowledge on setting up Test Beds and defining Test scenarios (for software and hardware)

Desired experience

- Experience working with Virtualization (Virtual Machines/Container, Docker)
- Knowledge of IP and data Networking
- Knowledge of RF systems
- Knowledge of implementing Security principles & techniques or security frameworks
- Experience developing for Multi OS environment

Title Job Description, February 2015
Satellite Applications Catapult

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>