

## **Reducing Barriers to Sub Orbital Flight (Electronic Systems Engineering - Remote)**

**Code:** 20/39

**Company:** Responsive Access

**Location:** Remote

### **Company Description:**

Responsive Access aim to simplify access to space, building software to simplify CubeSat launch and mission management to allow new actors to take advantage of this new area of opportunity. The company is working to become a software enabled aggregator of secondary payloads.

The company is incubated by the ESA BIC programme and is based at the Higgs Centre for Innovation in Edinburgh.

### **Project Description:**

The intern will investigate the potential for a standardised payload format for Suborbital launch vehicles and create a proof of concept. Responsive Access has found evidence of commercial viability within this area but is focusing efforts on the CubeSats due to the larger market size.

The project aims to:

- Assess concept's technical viability
- Develop a proof of concept which could potentially be flown.

This standardised payload would enable rideshare configurations on SubOrbital vehicles allowing fixed priced launch services to occur.

The candidate will build experience working on a real-world technical study. The candidate will build skills in business analysis and requirements engineering but will also critically analyze the concept to ascertain whether it is commercially and technically viable, proposing the next steps for potential developed.

The intern will develop technologies and outputs which will be flown later this year, allowing development of experience of "live" projects in a high growth startup.

Full mentoring will be provided through the course of the internship.

**Applicant Specification:**

- Academic Study in Electrical Engineering, Electronics / Embedded Systems, Computer Science or Systems Engineering
- Final Year Bachelors or Masters Student

**Minimum Requirements:**

- Good communication skills
- KiCAD experience (or similar)
- Interest in Space
- Microsoft Office
- Ability to work independently

**Preferred Additional Requirements:**

- Programming Experience
- Embedded Systems (FreeRTOS)
- NgSPICE
- Experience in Requirements Engineering and Systems Design
- This internship will progress to a full-time position for the right candidate

**Further details:**

8 weeks minimum fixed term contract to be agreed with successful candidate but nominally with a start date around 15 July 2020 to attend the SPIN Induction day hosted remotely by the Satellite Applications Catapult, and completion before September. Salary is £1,260 per calendar month gross.

**Closing Date for Applications: 5pm Friday 3 July**

Applications should be made through the online form attaching a CV, before the closing date. Please note that elements of the form left incomplete will be deemed to render the application ineligible. They will be checked for eligibility and forwarded to the employer.