

Improving the performance of a bespoke Prototype Rocket Engine

Code: 20/40

Company: Smallspark Space Systems

Location: Cardiff, Wales

Company Description:

Founded in 2018, Smallspark Space Systems is a UK based Aerospace and Artificial Intelligence (AAI) research firm working to push the boundaries in low-cost rocket propulsion systems and Artificial Intelligence capabilities in the engineering design process.

Project Description:

This project aims to tackle a long-term issue associated with the rocket engine architecture we are developing. The project will involve a mixture of design work and hands on manufacturing & testing. The applicant will be directly working on the development of a high powered rocket engine. This will see them working on the engine from its initial design through to several iterations of test firings.

Applicant Specification:

Mechanical/Aerospace Engineering (or related) currently studying a BEng, BSc or MEng.

Minimum Requirements:

Academic or industrial experience in computer aided design, finite element analysis and mechanical testing.

Preferred Additional Requirements:

Project related to 3D printing and knowledge or work related to rocket engines or related space systems. Further consideration will be given to those who participate in recognised rocketry groups.

Further details:

10 weeks minimum fixed term contract to be agreed with successful candidate but nominally with a start date around 13 July 2020 to attend the SPIN Induction day which will be held remotely on 15 July by the Satellite Applications Catapult. Salary is £9.80 per hour gross for 30 hours per week.

Closing Date for Applications: 5pm Thursday 2 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.