High Altitude Separation and Recovery Systems (HASRS)

Code: 21/35

Company: Raptor Aerospace

Location: Norwich, Norfolk

Company Description:

Raptor Aerospace was established in 2018 and is based near Norwich in Norfolk. The company conducts propulsion development using it's engine testing facility, and has workshops and offices. Raptor is developing propulsion technology and launch vehicles to deliver a New Space solution to short duration space access and microgravity environments via suborbital flights.

Raptor has years of experience of building and launching sounding rockets of various types and shall be conducting launches of development vehicles in the summer of 2021.

Project Description:

Comprising research, analysis, and practical testing, this project will look at the state of the art with regard to current solutions, and conduct tests regarding new systems under development.

Development of non-pyrotechnic separation and recovery systems are a key to high-altitude sounding rockets. Analysis of structures and atmospheric conditions form a key part of the project.

Applicant Specification:

An enthusiastic individual who would enjoy a high-paced start-up environment. A can-do attitude combined with intellectual rigour, the ability to be self-motivated, in addition to contributing and being part of the project team.

Minimum Requirements:

Engaged in completing a degree in engineering at any level, preferably relating to: mechanical design, materials, space engineering.

Preferred Additional Requirements:

Ideally in the final year of a bachelor degree, or engaged in postgraduate study, either MSc or PhD. CAD software design skills, ideally with Solidworks. Analysis software such as Ansys. Experience of rocketry projects would also be desirable.

Further details:

8 weeks minimum fixed term contract to be agreed with successful candidate. Induction to be given at the start of the internship. The project should ideally run from Tuesday June 1st. Salary is £1,500 per calendar month gross.

Closing Date for Applications: 5pm Wednesday 26 May

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.