

Sounding Rocket Mobile Launch Structures

Code: 21/37

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 its own 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:

The project will comprise; research, analysis of mechanical structures, and contribute to critical design tasks. This project would suit someone who is studying Mechanical Engineering, and who has an awareness and interest already in sounding rockets. Additionally, research of, and working knowledge relating to hydraulics would be of desirable. The project relates to the launch structure itself, not the structure of the launch vehicle.

The applicant shall be integrated into a project team, and carry out all relevant activities to that project such as:

- Writing a project plan
- Conducting research, and writing documentation to present the findings
- Contributing to technical documentation
- Contributing to design of components
- Writing a test plan, and designing and carrying out tests under supervision

Applicant Specification:

An enthusiastic individual who would thrive in 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.

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

Minimum Requirements:

Ideally in the final year of a bachelor degree, or engaged in postgraduate study, and experience of FEA.

Preferred Additional Requirements:

CAD software design skills, ideally with Solidworks. Analysis software such as Ansys. Experience of rocketry projects would 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 June 14th. Salary is £1,500 per calendar month gross.

Closing Date for Applications: 5pm Friday 4 June 2021

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.