

Mechanical engineer job specification

Magdrive is looking to hire a mechanical engineer to help develop a revolutionary, next-generation spacecraft propulsion system. The Magdrive propulsion system delivers an unmatched level of thrust (>100 mN/kg) with extraordinary efficiency (>2000 s) that will unlock new capabilities for spacecraft and enable entirely new industries in satellite servicing, orbital assembly and interplanetary transport.

You will play a pivotal role as one of the first employees of Magdrive, which brings enhanced freedom, responsibility and potential for career growth. The solutions you develop will directly shape the development of the Magdrive propulsion system and have a significant impact on the future of space travel. You will be responsible for the development of the propellant management system. This will require novel approaches in design and use of materials in order to minimize weight while achieving the desired performance.

Responsibilities

- Lead on the design, procurement and assembly of non-electrical components
- Developing the propellant management system
- Developing manufacture methods for specific components
- Assisting in development of other components and experimental hardware

Essential

- Higher degree in mechanical engineering or similar (MSc or PhD)
- Experience with CAD (solidworks or other)
- Passion for space travel and for taking a bold approach to a transformational technology
- Hands on approach to developing new technology
- Fast and effective problem solving skills
- Ability to work under pressure to tight deadlines
- Strong communication and interpersonal skills

Desirable

- Experience with vacuum and cryogenic systems
- Experience working with space hardware
- Knowledge of electric and chemical spacecraft propulsion
- Experience with simulation software and FEA

Benefits

- Salary £30k - £50k per annum (DOE)
- One of the first hires of an ambitious new space company
- 25 days annual leave + bank holidays
- Flexible and remote working
- Support for home office setup
- Generous share options scheme