

Work Experience Placements – Further Detail

Apprentice-Led Placements

- **(1A) – Term-time Generic Engineering/Technical placements** encompassing exposure to multiple departments within both our Space Imaging and RF Power divisions (duration: **one week**, availability: **multiple, throughout the year**)

In these placements, you will have the opportunity to experience some of the exciting work that takes place within both our Space Imaging and RF Power divisions. Whilst gaining a general overview of the company and the specific divisions, you will also get involved with various different engineering/technical disciplines throughout the week. The placements will also include a full tour of the site and an overview of our Apprenticeship schemes.

An example week could include:

- **Monday** – RF Maintenance to cover Electrical, Design and Fabrication
- **Tuesday** - SI Package Design, Camera and Non-Camera Build
- **Wednesday** - SI Clean Rooms, Wafer Fab and Back Thinning
- **Thursday/Friday** – RF Process, Magnetrons (Development Focus), Magnetrons (Production Focus), Drawing Office

- **(1B) Single Day Generic Engineering/Technical placements** encompassing exposure to multiple departments within both our Space Imaging and RF Power divisions (duration: **one day**, availability: **multiple, throughout the year**)

These shorter placements will cover similar activities to those covered in 1A (above) but condensed into one day, and may include a more dedicated focus within a specific business area.

- **(1C) Summer Break Generic Engineering/Technical placements** encompassing exposure to multiple departments within both our Space Imaging and RF Power divisions (duration: **one week**, availability: **multiple, during school holidays**)

These placements will include activities such as:

- Divisional placements (similar to those mentioned in 1A above)
- Presentations from each of the divisions
- Team building activities
- Lunch with managers and Apprentices

Space Imaging Placements

- **(2A) Product Technology & Verification** (duration: **two weeks**, availability: **one placement**)

The Product Technology & Verification group within our Space Imaging division is made up of four teams: Environmental Engineering, Product Verification, Test Software and Quantum Science.

Within this placement, you will see how all of these teams contribute to all aspects of testing and validation of our products. This includes designing the software and processes to electro-optically test our imaging sensors, the optimisation of our gravity sensors, and even subjecting our products to extreme temperatures and stresses to ensure that they can survive the harsh conditions of space.

- **(2B) Electronics and Systems Engineering** (duration: **two weeks**, availability: **one placement**)

This placement will enable you to gain experience of working within both the Space Imaging Electronics team and the Systems Engineering team.

Our Electronics team designs and develops the complex electronic hardware that supports the testing of a wide range of custom imaging sensor projects for our customers, who are mainly in the Space and Ground Astronomy markets. The team carries out a good mix of computer-based design and practical build and test work in the lab, to ensure that the hardware is accurately built and tested.

The Systems Engineering team takes customer needs and develops engineering processes and plans to arrive at engineering solutions to meet these needs. The team works closely with Project Managers, Quality Managers, customers and design teams, and supports the development of cutting-edge Quantum systems that measure gravity, time and acceleration more accurately than conventional methods, as well as complex systems that test products for Space.

- **(2C) Manufacturing** (duration: **four weeks**, availability: **one placement**)

This placement will give you the opportunity to work on a mini Continuous Improvement project within our Manufacturing team. The placement will be based in our cleanroom and will enable you to develop an understanding of the manufacturing processes that take place within the Assembly and Test section of the department, and will give you both technical and project management experience.

- **(3) Business Administration placements** encompassing exposure to general administrative and reception-based activity (duration: **one week**, availability: **two placements**)

These placements will provide you with the opportunity to experience how business admin application processes support our company. You will get a feel for what it would be like to be an office junior and assist with administrative duties such as ordering stationery, creating letters and emails, creating presentations, assisting with booking travel, processing expense claims and planning for site-wide events. You will experience a day in the life of a Receptionist and support with room bookings, hospitality requests and managing the visitor experience.