

The RAL Quantum Space Laboratory

The Quantum Space Laboratory (QSL) at STFC RAL Space helps reduce the barriers to space qualification of quantum technologies. QSL provides a place for industry, SMEs, research institutes and academia to collaborate on next generation technologies.

QSL provides enabling technologies, common subsystems, skills and facilities to reduce the risk, time and cost of making existing technologies ready for space. It offers:

- A dedicated laboratory and equipment
- Opportunities to work with RAL Space as collaborator, consultant or contractor:
 - Design, simulation and review
 - Manufacture, integration and testing at world class space test facilities
 - Calibration and verification
 - Operations
- Access to wider STFC science, engineering and support, including business development, facilities and business incubation.
- Access to business support and incubation facilities across Harwell Campus.
- Access to RAL Space engineering teams:
 - Optics and electronics
 - Mechanical and thermal
 - Quality and product assurance
 - System engineering and project management
- Opportunities for ground, airborne and on orbit demonstrators, including radio and optical facilities at a dark site.

Based upon decades of experience and investment in space technology development and testing, the QSL's aim is to support technology developers in preparing their technologies for operation in space, thereby maximising the impact from UK and European funding in fundamental technology development.