

Changing the economics of space

SSTL is the world's premier provider of small satellite missions and services



A person wearing a white hairnet, glasses, and a blue cleanroom suit is working on a satellite component. The component is a complex assembly of gold-colored circuit boards and various colored wires (red, yellow, green, blue). The person is looking intently at the component. The background is a cleanroom environment with white walls and metal structures.

The small satellite revolution started with SSTL

A world-class team of engineers rapidly build experience through regular satellite launches

We have been delivering small satellite missions for 30 years - longer than anyone else in the world, giving us the experience to justify our reputation as the world's premier provider of operational and commercial satellite programmes.

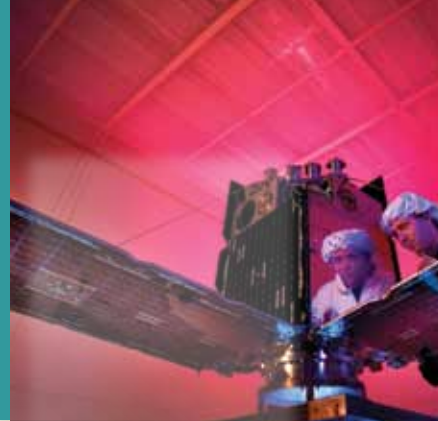
SSTL is an independent British company within the EADS Astrium NV group.

Operating from four business units:

- SSTL-UK - international satellite business and supporting infrastructure
- DMCii Limited - data sales and value-added data products
- SSSL - launch service provision
- SST-US – serving the US market

What we do:

- Provide complete in-house design, manufacture, launch and operation of small satellites
- Deliver complete mission solutions for remote sensing, science, navigation and telecommunications
- Deliver space training and development programmes including on-the-job customer training
- Design and build remote sensing and communications payloads
- Supply avionics suites and subsystems
- Build and install ground infrastructure
- Provide consultancy services



Extensive track record



The GIOVE-A satellite for ESA secured European GNSS navigation frequencies - built by SSTL on time and on budget

SSTL has delivered more than 40 satellites to international customers

- Main payload supplier for the European GNSS programme
- Supplier to major space agencies, international science missions, commercial business and national governments
- Implemented major commercial satellite constellations
- Delivered more than 70 subsystems and complete avionics suites for international customers
- Optical payloads for major space agencies and international science missions
- More than 20 ground stations installed across the world
- Full range of subsystems
- Supply and operational support for ground systems
- Telemetry, tracking and command
- Image and data processing
- Consistently delivers on time and on budget



Our approach



SSTL small satellite constellations are financially viable, enable rapid revisit imaging and provide flexibility for replenishing space assets for data continuity

SSTL has pioneered the low cost, low risk approach to delivering operational satellite missions within short timescales and with appropriate capability.

Heritage designs, commercial off-the-shelf technology, combined with a common sense and pragmatic approach to manufacture and low cost operations, enable us to ensure that programme economics are kept as low as realistically possible.

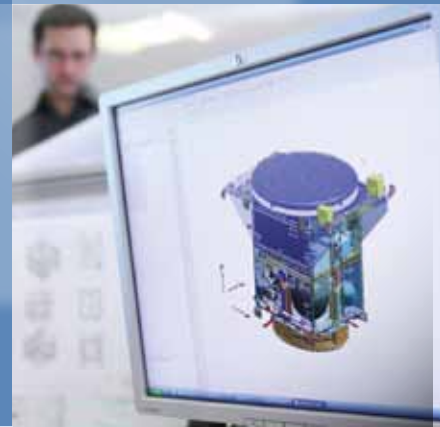
Professional and affordable solutions

Our approach focuses on the experience gained from previous missions. Every new project is evolved from our flight-proven designs, enabling us to provide custom-designed solutions with ultimate confidence founded on in-orbit performance.

Realising commercial business plans

Mission performance has improved in line with technology developments, allowing small satellites to deliver real-world applications at affordable cost, making viable commercial business plans a reality.

Today's small satellite solutions can compete in capability across a range of applications. Groups of small satellites operating as a constellation can undertake missions which large single spacecraft are unable to fulfil.



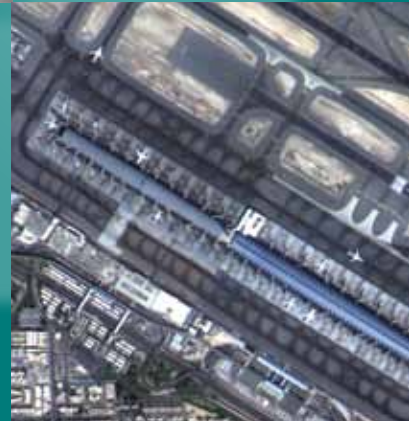
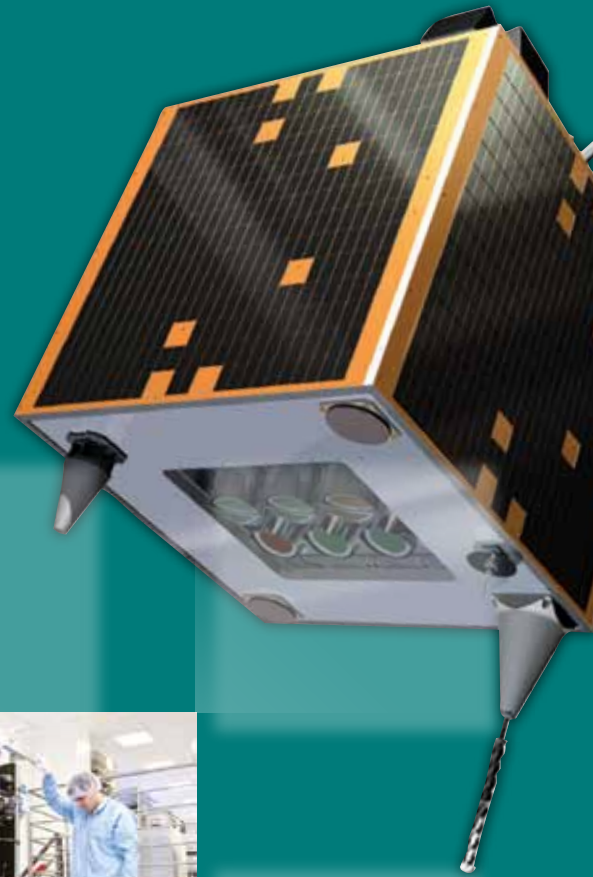
Best delivery schedules in the world

SSTL has a reputation for delivering to short schedules and within tight budgets. The GIOVE-A mission for the European Space Agency was designed, built and launched within 30 months, on a fixed priced contract.

Vertically integrated projects

We offer the most cost effective solutions by dictating schedule across all our satellite projects and by designing and building the complete system in-house:

- Reducing size of supply chain
- Allowing rapid schedules
- Enhancing flexibility
- Using Commercial-off-the-Shelf (COTS) technologies
- Saving costs



Applications

SSTL has operated satellite constellations for many years, developing a thorough understanding of satellite data applications. Over the last 30 years SSTL has built significant experience across numerous areas, including humanitarian, environmental, national and commercial activities.

Medium Resolution DMC

SSTL 100 constellation spacecraft for large area coverage medium-resolution Earth Observation applications

Responsive Missions

Eye in the sky for commercial, civil and security applications

High Resolution

SSTL 300 series, agile very high resolution EO systems

Synthetic Aperture Radar (SAR)

NovaSAR-S - provides medium resolution imagery night and day and through cloud

Telecommunications and Navigation

Versatile platform for low cost communications, navigation and exploration

*Dubai, UAE
2.5m pan sharpened
NigeriaSat-2 image*

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Ground Segment

We offer a complete turnkey ground segment solution providing all the hardware and software necessary to operate, maintain, process and archive spacecraft data.

We have significant ground station experience and have installed more than 20 systems across the world. We also provide operations training and ongoing support throughout the mission lifetime.

SSTL has accumulated over 200 years of in-orbit satellite operations through its fully automated Mission Control Centre, monitoring satellites 24 hours a day.

Timely imaging - Californian forest fires captured by SSTL-built DMC satellite

Launch Services

Launch negotiation is an intensive process and the launch itself is a significant cost to the overall programme.

SSTL will commence negotiations early in a programme with the aim of procuring the most cost effective launch opportunity.

We have excellent relationships with all major launch providers and will generally aim to conclude negotiations 12 months before launch date. We will manage all aspects of the launch contract negotiation process and ensure all pre-launch requirements are met as well as the transportation of the satellite to the launch site.





Industrial development and training

SSTL provides world-class training opportunities, from academic training to complete design and construction.



Using satellites as the foundation of an industrial development programme has consistently proven to bring sustainable economic expansion through space-based activities. Training programmes provided by SSTL have resulted in:

- Creation of six national space agencies
- Three spin-out companies in customer countries
- Sixteen international training programmes completed

Consultancy

Building and launching satellites requires considerable due diligence in order to meet mission objectives.

SSTL provides consultancy services to customers:

- Supplier evaluation
- Design and analysis specifications
- Programme management
- Launch procurement
- In-orbit operations



Managed Data Supply

SSTL supports customers with both the supply and sale of commercial satellite data through established channels.

SSTL's subsidiary, DMC International Imaging (DMCii), provides a commercial data service, processing large volumes of imagery downloaded from the multi-national Disaster Monitoring Constellation.



SSTL customers are in safe hands

SSTL has pioneered the development of space-based capability, enabling significant operational capability to be delivered at affordable prices within realistic timescales at very low risk.





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