

NASA GODDARD SPACE FLIGHT CENTER

Core Competencies

- Experimental, theoretical science
R&D of theories, concepts, unifying existing knowledge
Define requirements for sensors, instruments, spacecraft, data systems
- Large-scale information systems
Archive and distribute scientific data
Knowledge discovery and extraction
- Sensors and instrumentation
Optics and electro-optics (lasers), mechanisms, cryogenics
- Advanced flight and ground systems development
Communications, operations, control, data transfer/processing
- Mission systems engineering
Full suite of engineering skills to perform/lead design, development, testing/evaluation, and operations

Technology Development Areas

- Electronics
- Guidance and navigation
- Instruments
- Laser/Lidar systems
- Optics
- Robotics
- Sensors
- Software

Relevance to Other Industries

- Health and medicine
- Electronics, energy and photonics
- Advanced materials and chemicals
- Transportation
- Environmental
- Manufacturing
- Telecommunications
- Consumer products