

NASA **TECHNOLOGY TRANSFER** PROGRAM

BRINGING NASA TECHNOLOGY DOWN TO EARTH

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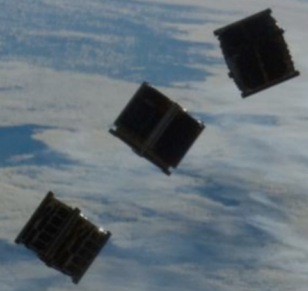
NASA KENNEDY SPACE CENTER (KSC)

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NASA Technology Transfer Program

The NASA Technology Transfer Program ensures that the discoveries, tools, and innovations developed for NASA missions are made available to U.S. companies, entrepreneurs, and the public. By sharing these mission-tested technologies, NASA helps accelerate commercial innovation, reduce development costs for industry, and expand the national impact of federally funded research.

- 1,300+ active patents available for licensing
- 1,200+ mission-tested software tools ready for release
- Flexible licensing pathways for startups and established companies
- NASA Tech Transfer team provides expertise for commercial assessment and industry outreach



NASA’s Technology Portfolio Overview

Mission-proven NASA technologies advancing innovation across multiple sectors. Explore a wide-ranging portfolio spanning materials, electronics, propulsion, and automation.

technology.nasa.gov

View all Categories

Communications

Electrical

Environment

Medicine / Biotech

Mechanical / Fluid Systems

Aerospace

Instrumentation

Manufacturing

Materials / Coatings

Sensors

Optics

IT / Software

Power Generation

Propulsion

Robotics

FEATURED TECHNOLOGIES



Manufacturing

Pyramid Image Quality Indicator

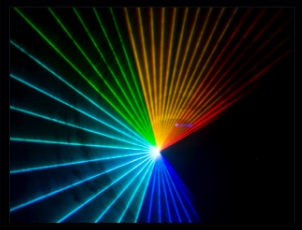
A scalable, inexpensive tool and methodology to ascertain real life computed tomography system performance for a wide range of industrial applications



Solid-State Microwave Power Module

Typically, microwave power modules (MPMs) are useful only for radar and navigation purposes because they lack the linearity and efficiency required for communications. In standard configurations, conventional MPMs require both a solid-state amplifier at the front end and a…

Read more



Optical Tunable-Based Transmitter For Multiple High-Frequency Bands

NASA Glenn’s researchers have developed a means of transporting multiple radio frequency carriers through a common optical beam. In contrast to RF infrastructure systems alone, this type of hybrid RF/optical system can provide a very high data-capacity signal communication…

Read more

NASA's Software Catalog Overview

Mission-tested software powering innovation across commercial space. Explore 15 different categories of over 1200 codes in the NASA Software Catalog.

software.nasa.gov

View all Categories

Aeronautics

Autonomous Systems

Business Systems and Project Management

Crew and Life Support

Data Servers Processing and Handling

Data and Image Processing

Design and Integration Tools

Electronics and Electrical Power

Environmental Science

Materials and Processes

Operations

Propulsion

Structures and Mechanisms

System Testing

Vehicle Management

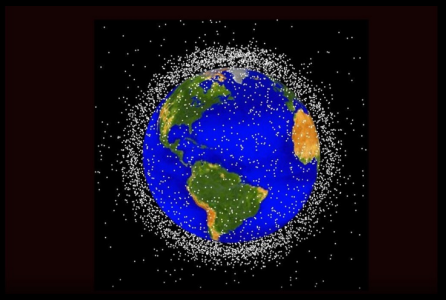


Featured Satellite Technologies



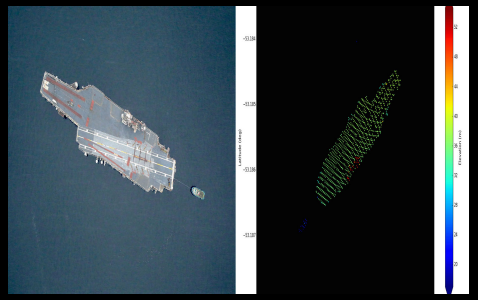
Dynamic Reconfigurable Broadcast Laser Comm

Programmable phase mirror allows for high efficiency, security, and compactness through targeted illumination and sharing aperture.



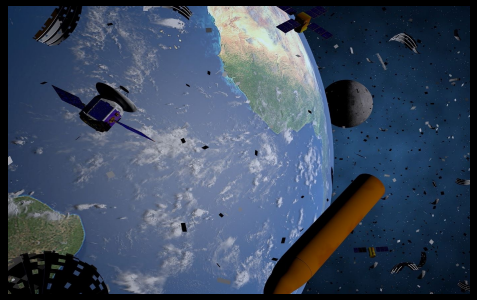
Space Traffic Management (STM) Architecture

Highly scalable, decentralized, open-architecture data exchange platform for STM



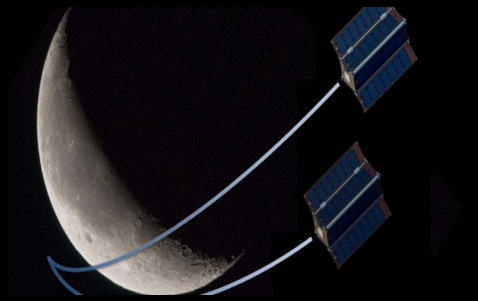
Kodiak 3D Lidar

Provides low cost and highly reliable 3D lidar images in nearly any lighting condition.



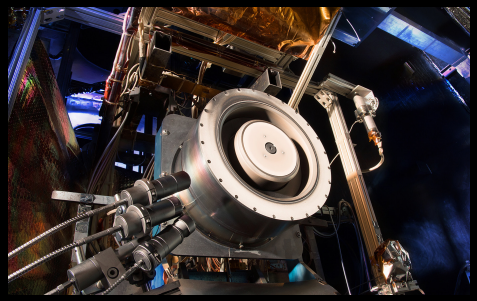
Spacecraft to Remove Orbital Debris

Concept to allow autonomous capture of debris in LEO



Gimbal for Steering Propelled CubeSats

Compact, Mount-ready Package to Facilitate Attitude Control



Hall Effect Thruster Technologies

New technologies that increase the operational lifetime of a Hall effect thruster (HET)

Licensing Pathways

Evaluation License

- Short-term permission to assess a NASA technology's potential and determine if it fits your development goals or planned applications.

Startup License

- Provides early-stage companies access to NASA patents with no up-front costs, helping new ventures secure IP as they grow.

Standard Commercial License

- Allows companies to make and sell products using NASA's patented technologies, with terms tailored to each business's needs.



Astronaut Kayla Barron looks at chile peppers growing in the Advanced Plant Habitat aboard the International Space Station. Determining the best ways to water plants in space resulted in the development of a new electrostatic spray nozzle, now licensed to industry. Credit: NASA

NASA Technologies Licensed Across a Wide Range of Industries



FROM INNOVATION TO REAL WORLD IMPACT

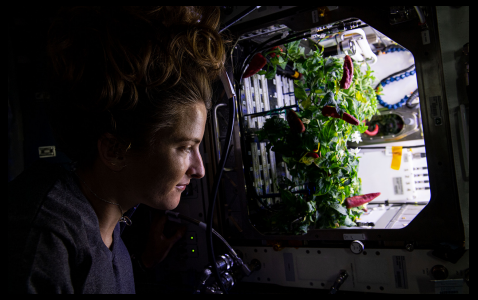
NASA SPINOFF

Since 1976, Spinoff has profiled technologies that benefit from NASA investment and expertise. We feature dozens of these success stories annually.

NASA Spinoffs have led to safer aviation, lifesaving biomedical tools, cleaner manufacturing methods, advanced imaging technologies, smarter agriculture, and next-generation robotics. These real-world successes begin with reporting a new technology.



NASA Spinoff Success Stories



Kennedy Space Center consulted with industry to develop a new electrostatic spraying nozzle to water plants in the weightless environment of space. Electrostatic Spraying Systems of Watkinsville, Georgia, licensed this nozzle, which is now used to sanitize products and equipment in industries like food production.



A humanoid robot from Austin, Texas-based Apptronik is the result of numerous collaborations with Johnson Space Center, including SBIR contracts. The Apollo robot is currently working in factories on Earth.



GRX-810, a new alloy developed by Glenn Research Center, will make lightweight, durable metal parts needed for space travel. Under a co-exclusive license for NASA's patented alloy, Elementum 3D of Erie, Colorado, is making it available for commercial space, aviation, and other industries on Earth.

EXPLORE, CONNECT, LICENSE

Connect With the NASA Technology Transfer Program

With team members at every NASA center, the Technology Transfer Program connects organizations with mission-proven technologies, guidance, and licensing pathways that support development and innovation. The program also engages startups and entrepreneurs and extends NASA technologies into university classrooms through Tech Transfer University.

Technology Transfer Portal: technology.nasa.gov

Software Catalog: software.nasa.gov

Technology Transfer University: technology.nasa.gov/t2u

Contact: Agency-Patent-Licensing@mail.nasa.gov

