

A satellite is shown in orbit above Earth. The satellite has a large, rectangular solar panel array on the left side, composed of several smaller panels. A long, thin boom extends from the main body of the satellite towards the right. The Earth's surface is visible below, showing blue oceans and brownish landmasses. The background is the blackness of space with some stars.

Engineering specialists

*in space-based remote
sensor technology*

Logistikos. Top senior engineers deliver cost-effective expertise to your aerospace sensor project.

As space-based remote sensor technology becomes more complex, your organization faces increasingly tight cost, technical and schedule goals. Do you have access to the experts you need? Are you confident your program's on the right engineering track?



they are a “dream team” of specialized engineers available on demand — an unparalleled knowledge bank for companies working on NASA, NOAA, DoD and commercial programs to tap.

Logistikos Engineering offers a cost-effective alternative for supplementing in-house engineering resources. Our hand-picked, senior-level engineers have decades of experience in space systems, with expertise ranging from systems engineering and detailed design to program management. Essentially,

Logistikos engineers can step in where and when you need them, for only as long as you need them, saving time and money for your program. Here are a few of the ways we help our clients:

Guiding development

With broad and deep industry expertise, our engineers understand how successful programs should be managed — and where pitfalls lie.

Preventing problems

Experienced Logistikos engineers can identify potential problems early, allowing resolution before they become costly.

Giving you industry perspective

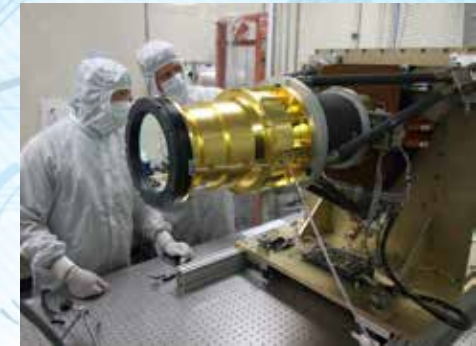
We bring you the advantage of a global perspective, based on aerospace program experience across the entire industry.

Helping you find the right path

We help maximize time and money for productive approaches, ones that deliver needed results.

Accessing proven solutions

Our engineers invariably know either the proven solutions to complex problems or where to find them, saving you time and money in the development process.



Logistikos is engineer-owned and -operated. We appreciate and understand your desire to find technical expertise that's an exact fit for your needs and organization. Contact us via phone or email; let's find out how we can contribute to your success.

Logistikos helps solve your most difficult remote sensor development challenges.

Remote Sensor Engineering

- Multispectral visible & IR imagers
- Space-based, remote sensors
- UAV sensor systems (National security)
- Scientific instruments
- Qualification & acceptance testing
- Hyperspectral imaging technology
- Interferometer instrument design
- Interferometer signal processing
- Grating spectrometers
- Radiometry
- Black body & radiometric source design
- Radiometric & spectral calibration
- Precision calibration algorithms
- Electro-optical & plasma instrumentation
- Radiation analysis
- Space-borne instrument R&D

Electronic Systems & Design

- Focal plane array technology
- Detector performance
- Particle detectors
- Analog circuit design
- Low noise electronics
- Analytic performance models
- Electrical noise modeling
- Detector nonlinearity
- Phase lock loops
- Metrology and lasers
- EMI mitigation & testing
- Signal processing algorithms
- Explosive detection technology
- Component engineering & acquisition
- MATLAB/SIMULINK analysis

Systems Engineering

- Systems definition
- System design
- System test
- Requirements allocation
- System compliance verification
- Architecture trades & optimization

Communication Systems

- Communication theory
- Radio design
- Modulation theory & modems
- Spread spectrum
- Null-steering antenna technology
- Electronic warfare
- Covert communications
- Jam-resistant communications
- Direction finding
- Signal intercept & exploitation
- Optimal detection methods
- Wireless systems
- Digital radio processing
- Spectrum usage
- RF analysis
- Emergency communications

New Business & Project Management

- Project management
- Cost & schedule control
- Risk management
- New business development
- Proposal preparation & evaluation

Product Problem Resolution

- Forensic failure analysis
- Root cause determination
- Fault tree creation
- Investigative experiments
- Theoretical analysis
- Electronic testing

Electro/Optical/ Mechanical System Design

- Telescope mechanical architecture & design
- Servo mechanisms

- Nonlinear & adaptive control
- Mechanical dynamic interaction
- Precision pointing mechanisms
- Vibration test support
- Mechanical design
- NASTRAN/PATRAN modeling
- PTC Creo Parametric & SolidWorks
- Thermal Desktop modeling
- Mechanical instrumentation & test



Space program experience of Logistikos staff

Our engineers were innovators in most of the industry's major weather satellite programs, as well as many others, over the last 30 years.

NASA

- GOES I-M series Imager & Sounder (Geostationary Operational Environmental Suite)
- GOES N-Q series Imager & Sounder (Geostationary Operational Environmental Suite)
- GOES-R Advanced Baseline Imager (ABI)
- GHIS (GOES High-Resolution Interferometer Sounder)
- HES (Hyperspectral Environmental Suite)
- CrIS (Cross-track Infrared Sounder)
- POES (Polar Operational Environmental Suite)
- AVHRR (Advanced Very High Resolution Radiometer)
- HIRS (High Resolution Infrared Sounder)
- NPOESS (National Polar-orbiting Operational Environmental Satellite System)
- Kepler
- RBI (Radiation Budget Instrument)
- Hubble space telescope
- Viking Lander
- Pioneer 10
- Voyager 1 and 2
- Galileo
- VIIRS (TBB, Auto-collimator)
- Interplanetary Monitoring Platform (IMP) 4,5, 6, 7 and 8
- Orbiting Geophysical Observatory (OGO) 2, 3 and 4
- INJUN 3, 4 and 5
- LANDSAT

Air Force

- W-Sensor
- NAVSTAR – GPS
- GPS IIR
- GPS IIR-M
- GPS III

Commercial & International

- GeoEye 1 & 2
- WorldView-2 & 3
- GOSAT
- COMs
- MTSAT
- MTSATII
- OG2 (ORBCOMM)
- Advanced Meteorological Imager (ABI for Korea)
- JMA/MSK Himawari
- AMI
- Indian National Satellite Very High Resolution Radiometer (IVHRR)
- International Sun-Earth Explorer (ISEE) 1 and 2
- IKONOS
- Classified RF surveillance programs
- United Kingdom (UK) 4
- Hawkeye 1
- 949 program
- HIPPARCOS
- SBIRS (mirror)

Defense

- Inertial upper stage (IUS) rocket
- Lincoln Lab experimental satellite
- Space-Based Laser
- Brilliant Eyes
- Brilliant Pebbles



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Find out more about how Logistikos Engineering can help your organization.

To learn more, visit our website or simply call us at 260-348-5179 to speak directly with Joe Predina, our president. Joe has almost 40 years of experience designing, building and testing some of the most widely used operational weather instruments — including some soon to be launched. He's a recognized industry expert in the greater NASA/NOAA engineering community, and a former ITT Exelis Technical Fellow.

