

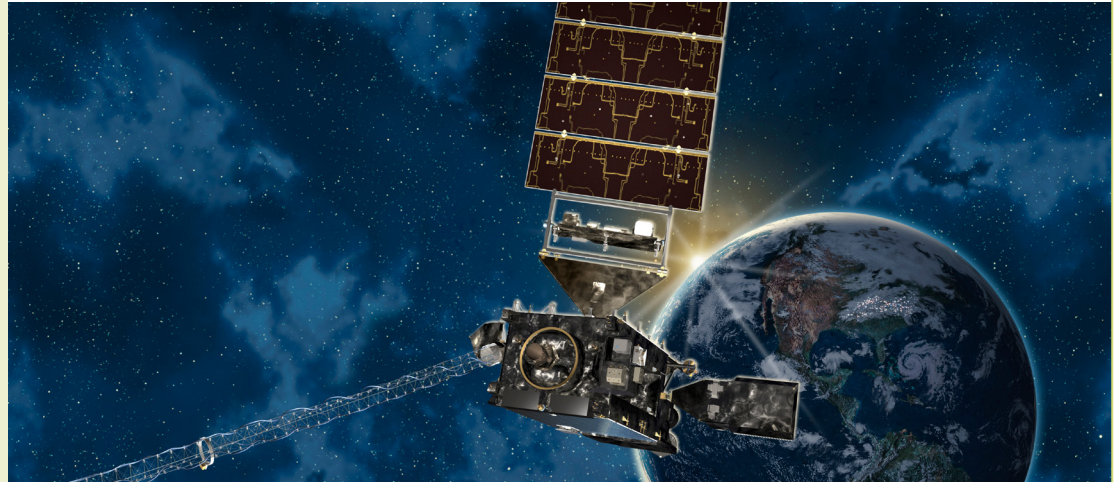
Noblis Solutions

Innovative Science and Reliable Technology Delivered

Staff Capabilities

Noblis provides a wide variety of professional skills and expertise to meet the demand of the NOAA environment.

- Atmospheric scientists
- Business analysts
- Climate scientists
- Computer science engineers
- Communications engineers
- Contingency planners
- Data modelers
- Economic analysts
- Enterprise architects
- Electrical engineers
- Environmental engineers
- Financial analysts
- Governance experts
- Hardware engineers
- Information architects
- IT security specialists
- Meteorologists
- Operations research analysts
- Organizational development consultants
- Physicists
- Project managers
- Radio frequency engineers
- Software engineers
- System architects
- System engineers
- Test and evaluation engineers
- Trainers and facilitators
- Telecommunications



"NOAA is one of the most valuable service agencies in the U.S. government. We make earth system science matter for millions of Americans every day. Through our network of observations, forecasts, and assessments, we strive to provide the foresight and information people need to live well and safely on this dynamic planet. At NOAA, we call this information 'environmental intelligence,' and producing it is at the core of our mission."

– Dr. Kathryn Sullivan, Under Secretary of Commerce for Oceans and Atmosphere and
NOAA Administrator

Noblis applies its capabilities to meet key NESDIS challenges.

Noblis promotes resilient and sustainable solutions. We apply our scientific, technical, and business capabilities to meet critical mission requirements.

NESDIS Challenges

- Encountering technical delays that place satellite launch and operational schedules at risk
- Minimizing schedule impact of budget re-programming and reductions
- Mitigating impacts of L-band bandwidth reallocation
- Ascertaining applicability and reliability of next generation satellite instruments
- Inserting new software development methods and approaches without introducing risk
- Meeting continuing demand for IT security including the growing FISMA requirements

Noblis Solutions

- Integrative, systems thinking
- Risk assessment and management
- Satellite availability modeling and simulation
- Software development technology, methodology, and assessment
- Engineering methods and standards
- Business and economic analyses
- Program management
- Contingency planning
- Knowledge management
- Enterprise architecture
- Workforce transformation and organizational development
- Program management and integration
- Acquisition methods and tools

Noblis puts innovation to work for NOAA.

Significant accomplishments:

- Provided extensive cost analyses on contractors Engineering Change Proposals (ECPs) for the GOES-R Ground Segment Projects.

Accomplishment: Collaborated with GOES-R technical development teams to assess accuracy and legitimacy of proposed changes and associated financial impacts to the government. Demonstrated a cumulative cost savings of approximately \$15M.

- Created the GOES-R Verification Activities Status chart detailing the software development of the Ground Segment increments, builds and releases to reflect technical artifacts, relational development threads, changing requirements, and schedule impacts.

Accomplishment: GOES-R Project Management Office (PMO) uses this as a risk management tool to view progress and provide documentation for award fee determination.

- Authored a trade study on data processing alternatives for the Clouds and the Earth's Radiant Energy System (CERES) sensor and achieved JPSS Program acceptance of the execution option recommended by Noblis.

Accomplishment: JPSS acceptance to leverage existing NASA Langley Research Center (LaRC) processing capabilities resulted in an estimated \$6M cost savings to the JPSS program by mitigating development risks and avoiding unnecessary algorithm development and ground software integration, testing, verification, and validation work.

- Key contributor to NOAA JPSS Office Algorithm Change Process Lean Six Sigma Event.

Accomplishment: Modifications to the algorithm change management process resulting from the Lean Six Sigma Event are expected to reduce processing time for completing changes by 20 percent and achieve a 50 percent reduction in functional and regression testing time.

- Noblis provided domain expertise to collect the appropriate raw GOES-R Program Radio Frequency (RF) performance data and processed it into formats that responded to National Telecommunication and Information Administration (NTIA) requirements to achieve spectrum certification.

Accomplishment: GOES-R achieved a significant milestone in receiving the Stage-3 RF Certification from the NTIA Spectrum Planning Subcommittee. Certification of spectrum support for telecommunication systems at Stage 3 is a prerequisite for NTIA authorization of radiation in support of developmental testing for systems that are subject to these procedures, and provides guidelines for assuring certification of spectrum support at Stage 4.

- Noblis led the deployment and integration testing for utilizing the NOAA Science Network (N-wave) to distribute GOES-R products to external interfaces and provide a backup to inter-site Mission Management telecommunications.

Accomplishment: GOES-R and N-wave entered into a Service Level Agreement (SLA) authored by Noblis complying to performance metrics to meet GOES-R operational requirements. These operational enhancements laid the groundwork to utilize this enterprise resource by other NOAA satellite programs.

Noblis Facts

Noblis is based in Falls Church, VA. We have over 1000 employees and an annual revenue of \$252M.

Noblis has a robust program for sponsoring internal research. We use this program to advance technology and invent new capabilities.

Our Falls Church headquarters houses the Noblis Innovation and Collaboration Center (NICC), a state-of-the-art laboratory facility with client meeting and collaboration work spaces.

We serve a wide range of clients in the federal, state, and local governments, as well as the private and nonprofit sectors. Our clients include more than 40 government agencies, and 150 private healthcare organizations. Our largest client is the U.S. government.

For More Information

Don Schaefer
Vice President, Enterprise Engineering and Environmental Solutions
don.schaefer@noblis.org
703.610.1706

Mary Ann Davis
Senior Manager
703.610.1941
mdavis@noblis.org

www.noblis.org

Timescale of key NOAA milestones and Noblis contributions

