

SciGlob is a science and engineering firm focused on atmospheric remote sensing from ground, air, and space-based platforms. Leveraging our research, design, and fabrication capabilities, SciGlob provides precision instrumentation and in-depth consulting expertise to tackle the most demanding projects. Look to SciGlob to deliver cost-effective solutions with integrity, quality, and dedication.

SciGlob Advantages

- **Diverse Team:** Scientific and engineering expertise with experience working with private industry, university and government (NASA, NIST, DoD, ESA)
- **Global Reach:** International partners around the world, including Europe and the Middle East
- **Agility:** Small business size enables flexibility, responsiveness, and focus on customer needs

SciGlob Core Capabilities

- **Enhanced Pollution Detection and Monitoring**
 - > Capitalize on wealth of information from hyper-spectral instrumentation by utilizing state-of-the-art spectroscopic techniques
 - > Exploit spectral regions from ultraviolet (UV) to near infrared (NIR) for wide range of species detection; such as ozone (O₃), nitrogen dioxide (NO₂), bromine oxide (BrO), formaldehyde (HCHO) and others
 - > Quantify pollution in near-real time through automated retrieval algorithms
- **Engineering and Instrument Development**
 - > Complement program expertise with mechanical, electrical and optical experience from requirements definition to fabrication
 - > Reduce cost and implementation time through the use of modular subsystems derived from custom and commercially available components
 - > Develop and deploy remote ground-based instrument networks and airborne remote sensing packages
 - > Integrate instrumentation on airborne platforms such as WB-57, Global Hawk, & UC-12
- **Characterization, Calibration and Test**
 - > Establish and manage instrument calibration facilities
 - > Evaluate detector and instrument optical performance (radiometric, stray light, reflectivity, spectral, linearity)
 - > Analyze uncertainty budgets and their effects on mission performance requirements

CONTACT SCIGLOB'S
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Ground Sites & Deployments

