

# U.S. Air Force Selects Bodkin Design & Engineering to Develop Advanced Measurement System for Enhancing Satellites

*The developed system will provide Bidirectional Reflectance Distribution Function (BRDF) data on components as they age in the simulated space environment.*

NEWTON, MA, UNITED STATES, February 12, 2025 /EINPresswire.com/ -- [Bodkin Design & Engineering, LLC](#) (BD&E) has been awarded a \$1,250,000 contract by the U.S. Air Force. The two-year Small Business Innovation Research (SBIR) project will support the Space Threat Assessment Testbed (STAT) at the Arnold Engineering Development Complex (AEDC).



Satellite Orbiting Earth

The innovative system to be designed and built by BD&E will help characterize satellite components as they age within the simulated space environment. This pioneering technology will support AEDC in characterizing the optical properties of materials, providing crucial data on how materials change over time under space conditions.

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We're excited to support AEDC's mission by providing a tool that will significantly enhance material testing capabilities and further the understanding of material aging in the space environment.”

*Andrew Bodkin, Principal of  
BD&E*

“This project reflects BD&E's commitment to advancing optical technology in space simulation,” said Andrew Bodkin, Principal of BD&E. “We're excited to support AEDC's mission by providing a tool that will significantly enhance material testing capabilities and further the understanding of material aging in the space environment.”

The developed system will provide Bidirectional Reflectance Distribution Function (BRDF) data on

components as they age in the simulated space environment, offering valuable insights into the performance and longevity of materials used in satellite construction.

About Bodkin Design & Engineering  
Bodkin Design and Engineering, LLC has been providing concept development, and design and build

services since 1992. Headquartered in Newton, Massachusetts, the company serves the international OEM, commercial, military, and research communities. Specializing in visible and infrared cameras and imaging spectroscopy, BD&E has overseen the successful introduction of products ranging from miniature infrared cameras and dental imagers to spectroscopic instruments for drug discovery. To learn more, visit the website at [www.bodkindesign.com](http://www.bodkindesign.com).

About the Arnold Engineering Development Complex (AEDC)

Located at Arnold Air Force Base in Tennessee, the AEDC provides a comprehensive range of testing capabilities designed to simulate speed, temperature, pressure, and other conditions across a broad spectrum to support the needs of aerospace system developers.

This information has been approved for public dissemination by AEDC PA 2025-041

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