

10-1-2014

Safer Flight

University of Dayton

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Recommended Citation

University of Dayton. "Safer Flight" (2014). http://wayback.archive-it.org/4727/20160115031258/https://www.udayton.edu/news/articles/2014/09/udri_air_force_contract_aerospace_materials_behavior_life_span.php

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NEWS

Wednesday October 1, 2014

Safer Flight

The University of Dayton Research Institute has been awarded a five-year Air Force contract to perform research in advanced behavior and life prediction of aerospace materials for the Air Force Research Laboratory, Materials and Manufacturing Directorate, at Wright-Patterson Air Force Base. The award ceiling for the indefinite-delivery, indefinite-quantity contract is \$42 million.

The overall contract provides for research and development in materials performance assessment and life-prediction tools to help the Air Force extend the life of, and reduce the cost of sustaining, aircraft and aircraft components.

The contract includes an initial work order of \$5.3 million; three additional work orders, totaling \$16.2 million, are expected in October. Researchers will perform physical experiments as well as computer modeling and simulation to better understand how materials perform under the types of conditions they will experience in service environments, which are affected by variables such as stress and temperature. Researchers will also work to develop more efficient tools to predict expected life of aerospace materials under service conditions.

Research efforts will include evaluating the thermal and mechanical performance of metallic and nonmetallic materials as well as high-temperature composites designed for use in aircraft and aerospace propulsion systems and structures.

For more information or interviews, contact Pamela Gregg, University of Dayton Research Institute

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