



Materials and Manufacturing Directorate

How can Academia Engage?



Examples: Grants, Fellowships, Co-fund, Personnel exchanges/inter-lab training



Air Force Office of Scientific Research Programs

AFOSR continues to expand the horizon of scientific knowledge through its leadership and management of the Air Force's basic research program. As a vital component of the Air Force Research Laboratory (AFRL), AFOSR's mission is to support Air Force goals of control and maximum utilization of air, space, and cyberspace. AFOSR accomplishes its mission by investing in basic research efforts for the Air Force in relevant scientific areas.

AFOSR Young Investigator's Program (YIP) The objective of YIP is to foster creative basic research in science and engineering, enhance early career development of outstanding young investigators, and increase opportunities for the young investigators to recognize the Air Force mission and the related challenges in science and engineering. DEADLINE: [APR/MAY](#)



AFOSR Multidisciplinary Research Program of the University Research Initiative (MURI) FIRST Tech Challenge is a robotics sport-like competition for students grades 7-12. Teams of up to 15 students design, build, and program robots to compete head-to-head against other teams. Teams develop strategies and build their robots based on comprehensive engineering principles. DEADLINE: [MAY](#)



AFOSR Defense University Research Instrumentation Program (DURIP) The DURIP program is for the acquisition of major equipment by U.S institutions of higher education to augment current or develop new research capabilities to support research in technical areas of interest to the DoD. DEADLINE: [MAY](#)



AFOSR Basic Research Traditional Grants foster revolutionary concepts to redefine state-of-the-art in DAF-relevant scientific areas through investment in academia-led basic research. In addition, university research offers an exceptional training ground for developing and mentoring future scientists and advancing our national defense and economic security. DEADLINE: [OPEN](#)



AFOSR Centers of Excellence (CoE)

The goals of a CoE are to perform excellent research in high priority Air Force interest areas, strengthen AFRL in-house technical capabilities by providing frequent substantive professional interchanges between AFRL and university personnel, educate students within the US in vital technology areas, and offer opportunities for AFRL new employee recruitment. DEADLINE: [JUL](#)



AFOSR Visiting Scientist Research Program (VSRP)

VSRP enables AF Scientists & Engineers (S&Es) to conduct research side-by-side with prominent researchers at a non-government laboratory, which may include the use of experimental facilities not available at the S&E's home organization. DEADLINE: [OPEN](#)



AFOSR Summer Faculty Fellowship Program

The SFFP offers hands-on exposure to Air Force research challenges through 8- to 12-week research residencies at participating Air Force research facilities for full-time science, mathematics, and engineering faculty/graduate students at U.S. colleges and universities. DEADLINE: [DEC/JAN](#)



The AFRL Regional Research Hub network is a pilot initiative assembling a new science and technology ecosystem with universities, large and small businesses, other government agencies, and venture capitalists in which partners help the lab research high-risk case studies.





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The Small Business Technology Transfer (STTR) Program is designed to provide an incentive for small companies, academic institutions, and non-profit research institutions, including federally-funded research and development centers (FFRDC), to work together to move emerging technical ideas from the laboratory to the marketplace. **DEADLINE: Varies by solicitation cycle**



Laboratory University Collaboration Initiative (LUCI)
LUCI is a pilot program designed to support DoD Laboratory researchers for collaborations fostered with DoD funded university researchers on basic research projects in areas of critical interest to DoD. **DEADLINE: MAR**



Vannevar Bush Faculty Fellowship (VBFF)
VBFF is oriented towards bold and ambitious “blue sky” research that may lead to extraordinary outcomes such as revolutionizing entire disciplines, creating entirely new fields, or disrupting accepted theories and perspectives. **DEADLINE: mid-OCT**



The objective of AFRL ML-RCP is to enable, enhance, and expand the research capabilities of Historically Black Colleges and Universities (HBCU) and Minority Serving Institutions (MSI) through collaborative research efforts with AFRL. The program has been recognized as a model for diversity engagements, enabling more than 750 students and 200 faculty participants from 40 partnering institutions to collaborate on AFRL directed research projects. **DEADLINE: Open**



AFRL Space University Research Initiative (SURI) was initiated as a pilot to foster engagements between various DoD agencies and the academic community in a developing USSF University Consortium, with the goal of improving the transition of critical concepts from the academic sector into revolutionary new military technologies. The program is intended to support basic and applied research in Space-related science and engineering at U.S. institutions of higher education with potential transition to essential applications of DoD interest. **DEADLINE: JUN**



The National Science Foundation (NSF) **Designing Materials to Revolutionize and Engineer our Future (DMREF)** program will support activities that significantly accelerate materials discovery and development by building the fundamental knowledge base needed to advance the design and development of materials with desirable properties or functionality. **DEADLINE: TBD**



The DAGSI program allows AFRL/RX to supplement its research capabilities with additional, experienced researchers. In addition, AFRL/RX is provided with the opportunity to utilize outside opinions and ideas, and participating researchers benefit from access to AFRL/RX's state of the art facilities and resources. **DEADLINE: JAN**

