AFOSR
International Enterprise

AOARD • EOARD • SOARD

AFOSR searches worldwide for research of interest to the Air Force and works to build relationships between world-class researchers abroad, and Air Force researchers in the U.S. To accomplish this, AFOSR has offices and programs dedicated to international opportunities managed by three detachments:

AOARD
Asian Office of Aerospace Research and Development

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EOARD
European Office of Aerospace Research and Development

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Unit 4515 Box 14 APO AE 09421	86 Blenheim Crescent Ruislip Middlesex HA4 7HB, United Kingdom

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SOARD
Southern Office of Aerospace Research and Development

U.S. Address:	S. American Address:
Unit 3460 DPO, AA 34033	ATTN: AFOSR/SOARD Av Andres Bello 2800 Las Condes, Santiago, Chile

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Doing Business with AFOSR

Broad Agency Announcement (BAA)

AFOSR seeks to create revolutionary scientific breakthroughs that enable the Air Force and U.S. industry to produce world-class, militarily significant and commercially valuable products. To accomplish this task, AFOSR invites proposals in broad research areas through the general BAA and other broad agency announcements. Proposals submitted under the BAAs are evaluated using a peer or scientific review process and selected for award on a competitive basis.

To apply for AFOSR funding opportunities listed in the BAA, visit www.grants.gov. All application forms and instructions are provided on the site. You can search grants.gov by CDFA numbers 12.800, 12.630 and 12.910. There you can also search for opportunities by all grant issuing federal agencies.

For more BAA information, visit www.afosr.af.mil

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TODAY'S BREAKTHROUGH SCIENCE FOR TOMORROW'S AIR FORCE

AFOSR
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH

TODAY'S BREAKTHROUGH SCIENCE FOR TOMORROW'S AIR FORCE

AFRL
THE AIR FORCE RESEARCH LABORATORY
LEAD | DISCOVER | DEVELOP | DELIVER

AFOSR

The Air Force Office of Scientific Research manages the basic research investment for the U.S. Air Force: we discover, shape and champion the science that profoundly impacts the future Air Force.

As part of the Air Force Research Laboratory (AFRL), AFOSR's technical experts identify and fund long-range technology options within AFRL, university and industry laboratories and ensure the timely transition of research results that offer significant benefit to national warfighting and peacekeeping capabilities.

Using a carefully balanced research portfolio, research managers within our three technical directorates seek to create revolutionary scientific breakthroughs, enabling the Air Force and U.S. industry to produce world-class, militarily significant and commercially valuable products. To accomplish this task, AFOSR solicits research proposals through a Broad Agency Announcement that outlines the Air Force Defense Research Sciences program supporting nearly forty major research areas.

■ Aerospace, Chemical & Material Sciences

A key emphasis of our directorate is the establishment of the scientific foundation to advance and couple fluid dynamics, combustion/propulsion, chemistry and materials/structures to yield revolutionary future capabilities. We focus the development of advanced multifunctional and adaptable autonomous materials and components and structures, which can survive in extreme environments. This is accomplished through leadership of an ambitious international multidisciplinary research community to find, support and foster new scientific discoveries that will ensure novel innovations for the future Air Force.

■ Physics & Electronics

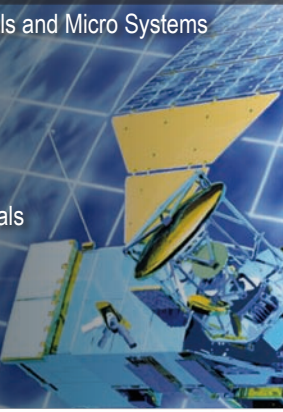
Our directorate seeks and supports the highest quality physics and electronics basic research throughout the world to yield revolutionary capabilities such as adaptable sensors and detectors that work in all environments; extremely fast computational and storage ability; real time, extremely high-bandwidth communications anywhere; and compact, highly efficient directed energy sources. These are exciting times: we have seen sustained exponential growth in electronics capability and new frontiers within quantum physics. We continue to leverage and shape new discoveries to ensure Air Force preeminence well into the future.

■ Mathematics, Information & Life Sciences

Our directorate contains the disciplines of biological sciences, human performance, information sciences and advanced mathematics. The structure of the directorate was conceived in this way to foster close collaboration of programs that needed a multidisciplinary approach to address the types of research fundamental to solving future Air Force problems, and enabling capabilities for the future Air Force. To facilitate collaboration, the directorate program managers are highly encouraged to attend each other's program reviews to enhance cross-fertilization of ideas. Toward this end, it is believed new and exciting formal methods will be developed that provide the crucible to achieve new insights.

Basic Research Areas

- Mechanics of Multifunctional Materials and Micro Systems
- Structural Mechanics
- Surface and Interfacial Science
- Organic Materials Chemistry
- Theoretical Chemistry
- Molecular Dynamics
- High Temperature Aerospace Materials
- Polymer Matrix Composites
- Hypersonics and Turbulence
- Flow Control and Aeroelasticity
- Space Power and Propulsion
- Combustion and Diagnostics



- Electro-Energetic Physics
- Atomic and Molecular Physics
- Physical Mathematics and Applied Analysis
- Electromagnetics
- Laser and Optical Physics
- Remote Sensing and Imaging Physics
- Space Sciences
- Quantum Electronic Solids
- Adaptive Multi-Mode Sensing and Ultra-High Speed Electronics
- Semiconductor and Electromagnetic Materials
- Optoelectronics: Components, Integration, Information Processing and Storage
- Sensing, Surveillance and Navigation

- Bioenergy
- Complex Networks
- Computational Mathematics
- Distributed Intelligence and Information Fusion
- Dynamics and Control
- Mathematical Modeling of Cognition and Decision
- Natural Materials and Systems
- Optimization and Discrete Mathematics
- Sensory Information Systems
- Collective Behavior and Socio-Cultural Modeling
- Systems and Software
- Information Operations and Security