

Reimagining what's possible and creating tomorrow's technology . . . today



and consultation

BASIC RESEARCH

Long-term, broad-based research that provides the foundation for future technological advancements

MUNITIONS

Hyper-precision weapons that allow the Air Force to adapt tactics, operate in complex environments and neutralize enemy threats

MATERIALS AND MANUFACTURING

Manufacturability and sustainability of the world's most advanced materials for aircraft, spacecraft, missiles, rockets and ground-based systems as well as their structural, electronic and optical components



surveillance, precision engagement and electronic warfare capabilities



DIRECTED ENERGY

Counter-electronics weapons technologies including high-energy lasers, high-power microwaves and electro-optics that degrade, damage or destroy electronic systems with minimum collateral damage

AFRL COMMUNITY

AFRL employs *5,216 government civilians and students. A highly educated research staff includes 1,139 personnel with doctoral degrees, 1,440 master's degrees, and 560 bachelor's degrees. The research community (Scientists & Engineers) is supported by professional and support staffs (Non S&Es). AFRL also employs 1,146 active-duty military members and 4,725 contractors for a total workforce of *11,087.

*As of August 31, 2019.

Scientists/Engineers: 3,200 **Top S&E Occupations**

- · Electronics/Electrical Engineers
- **General Engineers**
- Aerospace Engineers
- **Computer Scientists**
- **Materials Engineers**
- **Physicists**
- Mechanical Engineers
- **Computer Engineers**
- **Operations Researchers**







Professional and Support Staff 2.016 **Top Non S&E Occupations**

- · Contracting Professionals
- · Managers and Program Analysts
- · Financial Administration and Programmatic Support
- Information Technology Managers
- Security Administration Professionals

HISTORY

With roots tracing back to World War I, AFRL has led numerous technological advances in the last 100 years. Notable examples include advanced composites, turbine engines, quided munitions and GPS navigation. Today, AFRL leads science and technology (S&T) development through in-house and contractual programs to maintain a diverse portfolio ranging from basic and applied research to advanced technology development focused on specific products.

To ensure the Air Force has access to the most innovative S&T, AFRL partners with industry, academia and the international community.

AFRL leads targeted research to shape the future battlespace. The lab develops

EDWARDS AFB

KIRTLAND AFB



WRIGHT-PATT AFB

integrated technologies and delivers solutions to satisfy Air Force requirements to meet urgent operational needs. AFRL's efforts advance Air Force capabilities and contribute to mission readiness. In balancing a legacy of success with a pursuit of innovation, AFRL enhances existing warfighter capabilities while addressing the evolving battlefield. With innovative breakthroughs present in all of today's modern aircraft and weapon systems including the B-2 and the F-35, AFRL pushes technological boundaries while creating a safer, more secure tomorrow for the world.

LOCATIONS

AFRL has facilities in nine U.S. states and three countries.

- · Ohio (Wright-Patterson Air Force Base)
- · California (Edwards Air Force Base)
- Florida (Eglin Air Force Base)
- · Hawaii (Maui Research Site)
- New Mexico (Kirtland Air Force Base)
- New York (Rome)
- Tennessee (Arnold Air Force Base)
- Texas (Ft. Sam Houston)
- Virginia (Arlington)

International sites

- London, UK
- Tokyo, Japan
- Santiago, Chile



Development

U.S. Embassy-

Santiago







