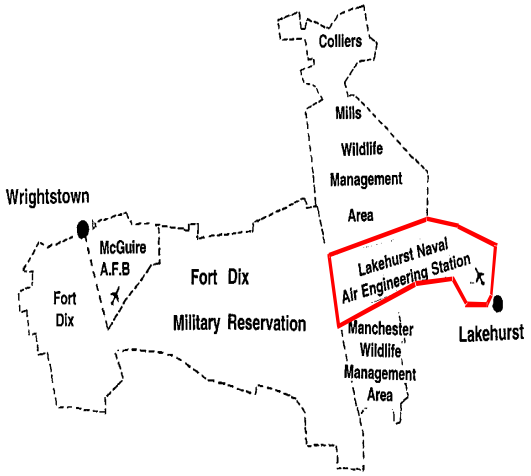
Community Relations

- **Emergency Services** Mutual Aid Agreements
  - Responded to more than 50 community fire and rescue calls in 2002
  - Provided fire, rescue, police and disaster training to local organizations
  - Provided CPR training to nursing students of Ocean County VO-Tech School
  - Provided support and facilities for community blood drives
  - Provided CPR training to nursing students of Vo-Tech school
  - Provided aircraft crash fire rescue training to firefighters at the Ocean County Fire Academy through the Joint Fire Coalition
- Community tours
- Thanksgiving food drive
- Active in Combined Federal Campaign/United Way
- Christmas Giving Tree - holiday party for 145 **Head Start children**
- Toy distribution Center
- Membership on **Community Organizations**
- Participated in **Read Across America** where military volunteers read to more than 300 local elementary school children
- Co-sponsored a **Career Day** with for 1,600 high school students
- Adopt-A-School
- Volunteers in **School Programs**
- Supported **Sea Cadets, Scouts and Civil Air Patrol** encampments and training including support for a regional flight school
- **Scholarship** to High School Student (from the Naval Civilian Managers Association)
- School and Community Presentations
- Judge at Science Fair (Naval Civilian Managers Assoc)
- Hosted **American Skills Olympics** for the New Jersey Vocational Industrial Clubs
- **Education Partnership Agreement** with Monmouth University, Princeton University, Rowan University, Stevens Institute of Technology
- **Lease and Support Agreement** with Ocean County Technical/Vocational Schools
- 4-Chaplains Services (Veterans)
- Earthquake relief
- Member of **New Jersey Technical Council**
- Ongoing association with the **Lakehurst Historical Society**
- **Restoration Advisory Board** - Community Co-Chairs
- **Ocean County Recycling Council** - Solid Waste Management Sub-Group
- **Ocean County Composting Council** - "Expert" status
- **Friends of Barnegat Bay** - Watershed Committee
- **Development Plan Collaboration** - Land Use strategies

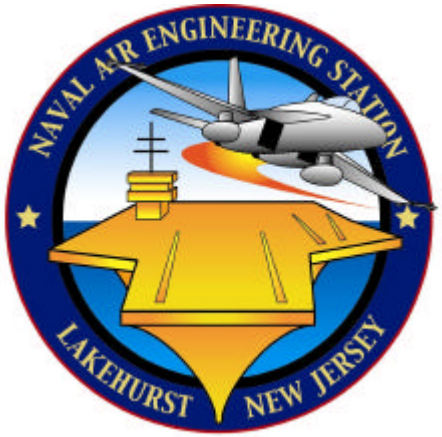
NAES Lakehurst, together with Fort Dix and McGuire Air Force Base, form a 42,000 acre military complex. NAES Lakehurst is additionally protected from encroachment by surrounding wildlife management areas.



Unique facilities dedicated to the Aircraft Platform Interface Mission

NAVAIR

AT THE NAVAL AIR ENGINEERING STATION



LAKEHURST, NJ

The world's only provider of full spectrum support for aircraft launch, recovery and support equipment for U.S. and Allied Naval Aviation Forces at sea and Marine Corp Expeditionary Aviation forces ashore.

www.lakehurst.navy.mil

NAVAIR Lakehurst - at a glance

Organization

NAVAIR Lakehurst is located at the Naval Air Engineering Station (NAES). NAES, assigned to COMNAVAIRLANT, provides support to over 20 tenant activities in addition to NAVAIR. Tenants include:
- Army Communications - Electronics Command
- Department of Justice Aviation Unit
- Naval Air Technical Training Center
- Navy Mobile Construction Battalion 21
- NJ State Police Urban Search and Rescue
- Ocean County Vocational Technical School
- 254th Regiment NJ Army National Guard

Location

NAES is 7,400 acres located in the central New Jersey Pinelands. It abuts Fort Dix to the west forming a *42,000 acre contiguous military complex* with Fort Dix and McGuire Air Force Base.

NAVAIR Lakehurst mission
NAVAIR Lakehurst is the Aircraft Platform Interface (API) expert. That is, they are responsible for the equipment, systems, processes and expertise needed to assure that *aircraft can operate safely and effectively from aircraft carriers, air-capable ships and expeditionary airfields*. The major components of the API mission are ALRE and SE.

Aircraft Launch and Recovery Equipment (ALRE) includes: steam catapults, jet blast deflectors, carrier and shore based arresting gear, air-capable ship recovery systems, barricade systems, LSO heads-up display, optical landing systems, wind measuring and indicating systems, marking and lighting, shipboard information systems, shipboard firefighting and certification of aviation facilities.

Support Equipment (SE)
Acquisition subject matter experts for 42,000 types of SE, over 750,000 items with a replacement value of over $15 billion includes: Airframe SE (handling, electrical/hydraulic servicing, maintenance platforms); Armament SE (loading, transport); Propulsion SE (test systems, Maintenance); Avionics SE (EW, navigation, communications, electro-optics, aircraft wing, radar); and Automatic Test Equipment (avionic test sets, hybrid test systems, consolidated automated support system)

Technologies/Expertise

- Acquisition management
- Airframe inspection
- Aviation Facility Certification
- Composite Repair
- Corrosion Control
- Cost Analysis and Estimating
- Design studies
- Electrical/Hydraulics/Pneumatics Systems
- Electromagnetics
- Engineering drawings
- Engineering investigations
- Environmental analysis
- Fleet support including Carrier and Field Service Unit, Aeronautical Ship Installation Representatives and Expeditionary Airfield Service Unit
- Flight Deck Marking and Lighting
- Foreign Military Sales
- Information Display Systems
- ILS acquisition management
- Level of Repair Analysis
- Logistics Support Analysis
- Maintenance Plans
- Materials Analysis
- Modeling and Simulation
- Non-Destructive Inspection
- Parts Management
- Powder injection molding
- Product certification
- Product evaluation
- Provisioning technical documentation
- Robotics assembly
- Shipboard Information Systems
- Shipboard Pollution Prevention Program
- Ship compatibility analysis
- Specifications and Standards
- Stress analysis
- Super Fund Site Remediation
- Supportability analysis
- Systems engineering
- Technical data package
- Technical Manuals
- Tool Control
- Trade-off analysis
- Wind Measurement Technology
- Workload simulation/analysis

Facilities

Test Facilities

The *steam catapult complex* includes C13 Mod 0 and C13 Mod 2 low-pressure catapults and a high-pressure steam plant. The *Runway Arrested Landing Site* is a 12,000 foot dedicated test runway with installed shipboard-type arresting gear. The *jet car track site* provides the capability for deadloads approximating aircraft weight to be propelled down mile+ long tracks at speeds up to 250 kts. The *Jet Blast Deflector site* duplicates JBDs on carriers for development and evaluation of system upgrades and aircraft compatibility testing. The *Elevated Fixed Platform*, a 60x85 ft deck atop a 25 ft high structure creates a realistic landing environment for rotary-wing aircraft

Lab Facilities

The *Aircraft Platform Interface Lab* provides a synergistic environment for RDT&E of API equipment and systems. Within the API lab complex are the:
- Advanced Launch and Recovery Control System (ALRCS) Lab
- ALRE Power/Electromagnetic Aircraft Launch System (EMALS)
- Aircraft Wiring Lab
- Aviation Data Management and Control System (ADMACS) Lab
- Carrier Analysis Lab
- Component Analysis Lab
- Electronic Component Diagnostic Development Lab
- Electro Optics Lab
- Environmental Test Lab
- Integrated Diagnostics Lab
- Laser Lab
- Modeling and Simulation Lab
- Product Development Lab
- Robotics Lab
- Visual Development Lab

Other Labs include:
Cass Product Verification/Evaluation Facility, Cryogenics Rework Facility, Electromagnetic Interference Lab

Prototype and Manufacturing

240,000 sq ft, 100+ artisans, more than 300 conventional and CNC machines for concurrent engineering, rapid prototyping and emergency manufacture of ALRE and SE components.

Buildings and other facilities

Over 600,000 sq ft of office space. Over 700,000 sq ft of covered hangar space including the 807x262x224 ft high hangar 1 (home to the CALASSES - a ¼ scale model carrier deck used for training Navy aircraft operators).
Two 5000 ft aircraft runways.
A base-usage zoning plan identifying areas suitable for development.