

# ERDC

Note: Internships will take place with ERDC teams stationed in different parts of the United States.

## Who We Are

The U.S. Army Engineer Research and Development Center (ERDC) is one of the premier engineering and scientific research organizations in the world. As the research organization of the U.S. Army Corps of Engineers, ERDC conducts research and development (R&D) in support of the Soldier, military installations and civil works projects (water resources, environmental missions, etc.) as well as for other federal agencies, state and municipal authorities, and with U.S. industry through innovative work agreements. **ERDC – Innovative solutions for a safer, better world!**

## Organization

ERDC labs collaborate to address R&D in four major areas: Military Engineering; Geospatial Research and Engineering; Environmental Quality/Installations; and Civil Works/Water Resources. ERDC has seven laboratories in four states: Construction Engineering Research Laboratory in Champaign, Ill.; Cold Regions Research and Engineering Laboratory in Hanover, N.H.; Topographic Engineering Center in Alexandria, Va.; and the Coastal and Hydraulics, Geotechnical and Structures, Environmental, and Information Technology Laboratories in Vicksburg, Miss. ERDC has a staff of approximately 2,500 federal employees and contractors, and an annual research program exceeding \$2 billion.

## Capabilities

ERDC R&D focuses on five primary technical areas to support the Army and the Corps:

- Warfighter Support – geospatial information; system development; operational support; force protection; and force projection and sustainment
- Installations – transformation; operations; and environmental issues
- Environment – remediation and restoration; land planning, stewardship and management; threatened and endangered species; and cultural resources
- Water Resources – infrastructure, water resources, environmental issues, and navigation; and flood control and storm damage reduction
- Information Technology – informatics; geospatial technologies; computational services; high-performance computing applications

## Facilities and Expertise

ERDC manages five major Department of Defense Supercomputer Resource Centers and hosts one of the centers. ERDC supercomputers are some of the most powerful and fastest in the world, with a capability of 487 trillion calculations per second. Other unique and world-class facilities include the world's

most powerful centrifuge, blast effects facilities, physical models of river and coastal projects, endangered species laboratories, heavy vehicle simulators, hazardous waste research laboratories, frost and ice engineering facilities, and an 1,800-foot coastal research pier.

The most impressive asset of ERDC is its people – the expertise and education of its research team allows the ERDC to provide solutions to our Nation’s most complex challenges. ERDC staff includes 1,000 engineers and scientists, many with advanced degrees (28 percent hold doctorates and 43 percent hold master’s degrees). ERDC outreach and partnering efforts result in numerous cooperative R&D agreements engaging leading experts from academia, private industry, and other agencies.

**Opportunities/Activities in Vicksburg:** Historic Vicksburg, Mississippi, is also home to the U.S. Corps of Engineers, Vicksburg District and the Mississippi Valley Division. During summer 2013, Vicksburg's National Military Park celebrated the 150th anniversary of the Campaign and Siege of Vicksburg. The recently opened Lower Mississippi River Museum and Riverfront Interpretive Site is the first of its kind in the U.S. as it is the first and only museum to maintain and house a fully restored, dry docked riverboat. The river museum houses interactive displays about the Mississippi River and the Corps of Engineers.

**ERDC Point of Contact**

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