



CRREL

COLD REGIONS
RESEARCH AND
ENGINEERING
LABORATORY

MISSION:

We deliver environmentally relevant and transformative engineering solutions to test, evaluate and improve infrastructure and equipment, particularly for use in cold regions. We quantify the effects of changing environmental conditions on installations, maneuver and materiel to sustain military and civil operations. We advance our knowledge of ice, snow and terrestrial behavior, mechanics and forces to shape the outcome in achieving mission success.

VISION:

We're developing innovative solutions for science and engineering challenges in extreme environments.

GOALS:

At ERDC's Cold Regions Research and Engineering Laboratory (CRREL), our mission is to solve interdisciplinary, strategically important problems impacting Warfighters and the nation in cold and complex regions. Our work centers on developing and delivering transformative technical solutions that meet operational challenges in cold and complex environments.

What we do:

The Cold Regions Research and Engineering Laboratory (CRREL) is one of the world's premier centers for research in the Earth's cold regions. For more than 60 years, we've helped the U.S. Army Corps of Engineers (USACE), the U.S. Army, the Department of Defense (DoD) and the Nation meet the challenges encountered in some of Earth's harshest and most austere cold region environments. We have a history of success at both the North and South poles, and with our unique cold regions expertise and facilities, we work to ensure the DoD and the Nation are prepared to operate in cold, complex and extreme environments.

- ▶ Biogeochemical sciences
- ▶ Engineering resources
- ▶ Force projection and sustainment
- ▶ Terrestrial and cryospheric sciences
- ▶ Remote sensing and geographical information science (GIS)
- ▶ Signature physics



WHY we do it:

Through basic and applied research, CRREL ensures USACE, DoD and the Nation are fully prepared and capable of maintaining our national security, addressing operational challenges and civil works interests in cold and extreme environments.

WHO we are:

Headquartered in Hanover, New Hampshire, and with facilities in Alaska, we're a multidisciplinary team of more than 250 engineers, scientists, technicians and support personnel working together to address current and emerging technical challenges related to cold regions. From our one-of-a-kind permafrost tunnel to our cutting-edge LiDAR research to our ice adhesion testing facility, we're committed to making our nation's operations in cold regions as safe and efficient as possible.



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