



**US Army Corps
of Engineers®**
Engineer Research and
Development Center

Ground Vehicle Mobility and Countermobility

Description

The [Geotechnical and Structures Laboratory \(GSL\)](#) is the center of expertise in ground vehicle mobility and countermobility for the U.S. Army and the Department of Defense.

This mobility research focuses on the goal of providing reliable, high-resolution mobility/countermobility predictions, assessments, and representations to battlefield commanders, combat developers, materiel developers, and tactical trainers for use in live, constructive, and virtual environments.

It encompasses engineering disciplines such as soil and vehicle mechanics, soil and vehicle dynamics, engineering geology, pavements technology, and vehicle-terrain interaction.



**ERDC-GSL offers expertise in
ground vehicle mobility and
countermobility**

Capabilities

The GSL team members involved in this mission conduct research, experimental testing, and evaluations of vehicles to ensure that U.S. military forces maintain ground maneuver superiority over adversaries in any environment. This outcome is accomplished through systematic vehicle-terrain interaction research and studies that involve experimental testing of vehicle components or systems, modeling and simulations, and operations research methods to understand and satisfy the increasing demands for technological advancements (such as robotic vehicles) to current military systems and future combat systems.

Benefits

Applying the results of this research ensures that U.S. military forces maintain ground maneuver superiority over adversaries in any environment and meet the increasing demands for technological advancements.

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