

Mining Services

OVERVIEW



 **GeoComp**
A Sercel Business

geocomp.com

Our Capabilities

Geocomp delivers global consulting services across the planning, engineering, construction, and operational phases of mining projects. With advanced expertise in soil and rock behavior, construction practices, instrumentation and monitoring, laboratory testing, and remote sensing, Geocomp provides unique value to mine owners and operators, helping them enhance safety, efficiency, and overall project performance.

Geotechnical Engineering & Consulting

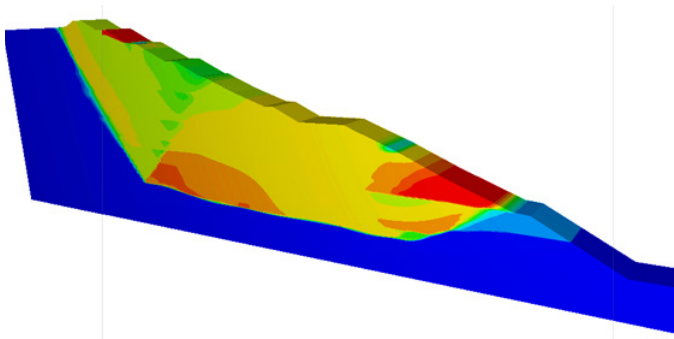
Geocomp supports the mining industry with a comprehensive suite of specialized services that enhance safety, compliance, and operational efficiency:

Geotechnical Analysis: We conduct thorough geological, geophysical, and geotechnical characterizations to provide a solid foundation for safe and efficient mine development, including open pit mines and tailings dams.

Risk Management: Our team provides seismic hazard assessments, slope stability analysis, and expert design reviews, that enhance mine safety and risk management. We also assist clients with regulatory safety compliance and certifications to uphold industry standards.

Water Management: We help mining operations control water-related risks, protect resources, and minimize environmental impact using advanced groundwater flow analysis.

Data Integration: By combining remote sensing with continuous monitoring on our *iSiteCentral*® platform, we offer integrated data analysis and real-time insights, helping clients actively manage risks and make informed decisions.



Finite element model of a stability assessment of a tailings dam



S-scan node geophysical solution used on a mining project



Fiber optic cables used on a mining project in Australia

Instrumentation & Monitoring

Geocomp brings extensive expertise in delivering tailored solutions for mining applications. With experience implementing complex monitoring systems in challenging mining environments, we assist owners and operators in selecting and designing monitoring programs to manage risk proactively.

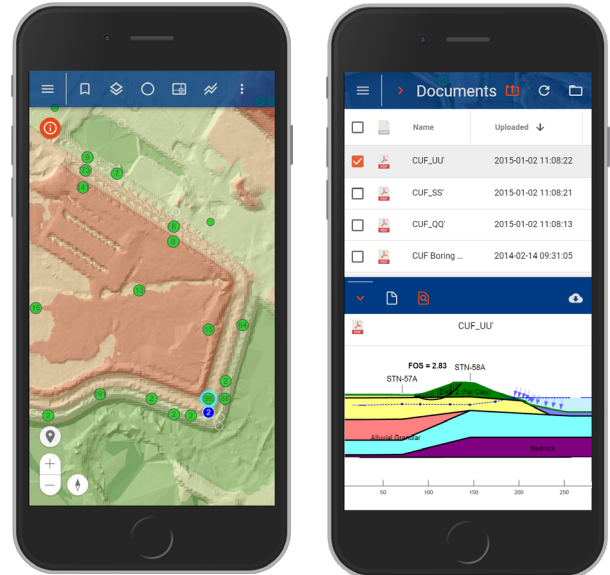
Comprehensive Monitoring of Site Conditions - We monitor surface and subsurface movement, stress levels, hydraulic conditions, environmental factors, and more. Our extensive range of sensors and data sources, from piezometers to distributed fiber optic sensing, captures critical data to enhance safety and support informed decision-making.

Unified and Scalable Data Platform - Geocomp's *iSiteCentral*® platform integrates virtually any instrument and data source into a single, cloud-based system. With robust reliability, GIS overlay capabilities, and scalability, our platform delivers seamless access to vital insights from field instruments to your fingertips—accessible from any device within seconds.

Reliable. Trusted. Value-driven. Innovative.

For more than 40 years, Geocomp has been a trusted partner in providing clients with innovative geotechnical solutions.

iSiteCentral®
Sensor to Screen®



Data management with *iSiteCentral*® on web or mobile devices

User-Friendly, Real-Time Access - *iSiteCentral*® combines ease of use with rapid data presentation, allowing teams to access data on any device in less than 3 seconds. Our hardware-agnostic approach and intuitive interface support quick learning and immediate application in the field.

Supported by Real-World Expertise - Our knowledgeable team, experienced in instrumentation and engineering, provides tailored support for real-world applications, from complex inclinometer arrays to LIDAR and GPS systems, ensuring precise data interpretation and on-site solutions.

EXAMPLE PROJECTS

- Designed support facilities and performed liquefaction assessments on a mining site in New England
- Evaluated the stability of tailings dams using soil constitutive models for a major tailings dam failure in South America
- Evaluated the stability of a tailings dam in Eastern Europe
- Provided geotechnical design support for three tailings dams in Venezuela
- Designed and monitored safety for major gypsum tailings stack in Florida
- Performed a complex study of the mechanical properties of tailings worldwide
- Provided failure analysis for liquefaction of a water retention dam in the US
- Provided failure assessments for several tailings dams in the US

Experience you can trust

For more than 40 years, Geocomp has helped clients overcome complex geotechnical challenges by providing tailored, technology-driven solutions. We work closely with our clients to identify their specific needs and deliver innovative, cost-effective services that help keep their projects safe and efficient. By leveraging advanced technologies and our deep expertise, we solve critical issues and help clients achieve their goals with confidence.

Geotechnical Laboratory Testing

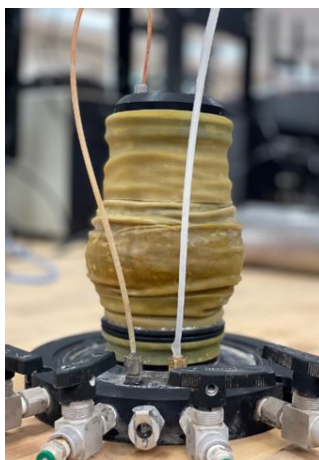
Through GeoTesting Express (GTX), Geocomp offers comprehensive field and lab testing for soil, rock, geosynthetic, and waste materials.

Comprehensive Material Testing Capabilities: GTX provides extensive testing to measure mechanical and physical properties of geo-materials, offering precise assessments for various industries. Our large-scale lab capabilities allow us to handle complex testing needs efficiently, accurately, and quickly.

Advanced Automation for Fast, Reliable Results: GTX's highly automated test stations enable rapid processing, often outpacing local labs even with shipping times. This speed allows clients to make timely, informed decisions critical to project success.



GTX automation lab in Acton, MA



Lab testing of iron tailings from an Australian mine

Expert Tailings Testing and Safety Analysis: Equipped for testing mine tailings, GTX evaluates physical and mechanical properties to identify risks of liquefaction and global instability. We support mine lab testing to assess and mitigate failure risks, helping to improve safe management of tailing facilities.

Global Sample Handling and Specialized Protocols: GTX's USDA license facilitates smooth international sample imports, while our handling protocols reduce sample disturbance. Our commitment to quality and precision extends GTX's expertise to clients worldwide.



Geocomp provides cutting-edge solutions leveraging the latest technological advancements to help clients achieve their goals.
To learn more visit [geocomp.com](https://www.geocomp.com)

