Statement of Qualifications

GeoTest, Inc.
2135 S. 116th Street
West Allis, WI • USA

414.321.8378
888.436.8378 (888.geo.test)
www.888geotest.com

Geotechnical Engineering
Construction Materials Testing
Construction Observation and Documentation
Geological and Industrial Minerals Testing
GeoTest is a multi-faceted firm providing accredited geotechnical engineering, construction materials engineering and laboratory testing services. Our field and laboratory services range from geotechnical site evaluation and construction observation, to testing and monitoring the quality of the construction materials delivered and installed at your project. Laboratory capabilities include testing soil, rock, concrete, aggregates, hot-mix asphalt, stone, masonry, mortar, and grout. Our firm conducts testing services for a wide range of projects, such as airports, roads, bridges, landfills, and buildings. We have a broad range of testing capabilities and professional experience to enhance the quality of your construction project.

Established in March 1997, GeoTest is a registered Wisconsin corporation. While maintaining testing facilities in West Allis and Sun Prairie, we also have three fully equipped mobile laboratories available for your job or mine site. Our equipment is calibrated at regularly scheduled intervals to assure reliable performance.

GeoTest maintains a highly qualified professional staff, affording us the opportunity to provide a single technician or assemble a team, to suit the special needs of a particular project. Our staff works efficiently and in accordance with the appropriate testing standards to assure that accurate results are reported in a timely manner. The principal objective of GeoTest has always been to offer testing services of high professional standards and technical competence. GeoTest is a proud member of the American Council of Independent Laboratories (ACIL).

Accreditation

GeoTest is accredited by the Laboratory Accreditation Bureau (L-A-B), to meet the requirements of ISO/IEC 17025:2005, ASTM E329-10, ASTM C1077-10d, ASTM C3740-10 and AASHTO R18:2010. We are also qualified by the Wisconsin Department of Transportation (WisDOT) to perform various tests on Portland Cement Concrete, Hot-mix Asphalt, Aggregates, and Soils. A list of each accredited test is available upon request. L-A-B Certificate #L2296 Testing

Certified Technicians

GeoTest employs ACI, NICET and WisDOT certified technicians. The experience and knowledge level of our highly qualified technicians is our most attractive feature. We bring our wealth of experience to each project.
GeoTest provides a full range of engineering and testing services for a wide variety of projects. We can test any geologically based construction material, plus many other products. A list of available services is presented below.

- Geotechnical Engineering
- Construction Materials Engineering and Testing (CMET)
- Laboratory Services
- Pavement Smoothness Profiling
- Vibration Monitoring (Seismograph)
- Condition Surveys (Crack and Damage Surveys)
- Ground Penetrating Radar
- Pavement Management
GeoTest provides state-of-the-art geotechnical engineering and consulting services throughout the United States. Our traditional services include:

- Full-Service Geotechnical Engineering and Consulting
- Cost-Effective Foundation Design
- Existing Foundation Plan Evaluation
- Site Feasibility Assessments
- Peer Reviews
- On-Site Condition Assessment and Problem Solving
- Site Investigations
- Soil & Rock Drilling/Sampling
- In-Situ Soil and Geophysical Testing
- Groundwater Evaluations

Our geotechnical engineering and consulting services provide value during all phases of a project, from preliminary engineering through completion of the building process.

- When included on the design team during due diligence, we can offer significant insight into the potential geologic conditions, of which project feasibility and design decisions can be made.
- During design, we can provide judgments and advise the design team on the structural and economic effects of the subsurface conditions present.
- During construction, we can observe actual site conditions and recommend, when necessary, modifications to the design to manage or reduce costs.

GeoTest has the geotechnical and construction expertise to provide foundation design recommendations that will minimize construction costs, reduce construction time, and effectively manage construction risks.

Locations

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GeoTest provides a full range of testing services for a wide variety of projects. We can test any geologically based construction material plus many other products. A listing of available services is presented below.

- Construction Observation, Special Inspection and Documentation
- Full service geotechnical laboratory
- Full service materials laboratory
- Full service hot-mix asphalt laboratory
- Portland cement concrete mix development
- Hot-mix asphalt mix development
- Dimension stone testing
- Rock testing with strain gauges
- Pavement Smoothness Profiling
- Structure Condition Surveys (Crack and Damage)
- Seismic and Vibration Monitoring
- Location and quality testing of materials for construction
- Compaction monitoring and testing during earthwork
- Excavation monitoring and subgrade testing
- Pre and post construction crack and damage surveys
- WisDOT Quality Management Program testing
- Airport Quality Management Program testing
- Mobile laboratory testing services
- Tests on spray applied fire resistive materials
- Ground Penetrating Radar (Concrete Imaging Radar)
- Concrete coring and CIPPOC testing
- Concrete non-destructive tests: Windsor Probe, Swiss Hammer
- Concrete maturity strength estimation.
GeoTest maintains an accredited laboratory in West Allis, and a CMT laboratory in Sun Prairie, Wisconsin. Our laboratories perform a wide range of rock, soil, concrete, hot-mix asphalt, aggregate, and other construction materials testing. The laboratory tests that we offer are conducted in strict compliance with ISO, ASTM, AASHTO and other applicable test standards.

Our laboratory equipment is maintained and calibrated at regular intervals to assure reliable performance. We participate in concrete, aggregate, and soil proficiency testing programs under the AMRL and CCRL auspices. We are assessed by Laboratory Accreditation Bureau and WisDOT on a regular basis to ensure quality test results.

GeoTest performs laboratory tests on the following materials:

- Soil
- Concrete
- Hot-mixed Asphalt
- Aggregates
- Rock
- Dimension Stone
- Soil-Bentonite Slurry
- Soil-Cement
- Soil-Lime
- Ash and Sludge for by-product utilization
- Mortar
- Grout
- Brick
- Concrete Masonry Units
- Proppant (Frac Sand)

GeoTest owns several mobile laboratories, designed, and equipped to perform the specified tests required for construction projects. Our labs are designed for high volume road and airport paving projects. Materials tested in the mobile labs include soils, aggregates, hot-mix asphalt and concrete.

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Pavement Smoothness Profiling Services

One of the greatest technological advances in pavement smoothness technology is the development of the inertial profiler. Developed by General Motors research engineers in the 1960’s, the inertial profiler is fast becoming the nation’s first choice for smoothness measurement. The components of an inertial profiler are a height sensor (laser), an accelerometer, a distance measuring device, a photocell and a computer with software to compute the profile.

All these combined can calculate the profile of a section of pavement. The data can be used to calculate various indexes, the most common being the Profile Index and the International Roughness Index.

Our equipment can provide these values in printed and electronic format at the job site.

LMI Roline Laser

GeoTest has available a LMI Roline laser for use with the lightweight profiler. The Roline is recognized to reduce inflated IRI and PI values caused by pavement texture. The Roline also provides the highest repeatability value when compared to other lasers on textured pavements. The Roline laser takes 100 readings over a 4 inch line to provide an accurate measurement of the surface smoothness.

TriODS Laser

GeoTest has available a pair of TriODS lasers for use with either the Lightweight or High Speed profilers. The TriODS offer extremely high accuracy on all pavement types. The TriODS provides an average of three measurements which reduces high IRI values caused by pavement texture or irregularities. The dual units provide single pass coverage, helping reduce the time required on-site and traffic interruptions.

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GeoTest provides monitoring for many types of construction-related vibrations. From monitoring pile driving to rock blasting, we have helped contractors and structure owners monitor and mitigate potential damage caused by vibration.

Our experts utilize the latest equipment and software. We maintain and calibrate our units to the highest standards to provide the most-reliable data. We can provide monitoring durations ranging from a single blast to a months-long project.

Installations have included remote monitoring using solar-powered devices connected to cellular modems to provide instantaneous alerts of vibrations exceeding established thresholds. All data is stored online for easy access and reporting to all interested parties, anywhere, anytime.

Additionally, our Structure Condition Surveys provide any project a critical tool to avoid or mitigate claims of damage to neighboring structures. These surveys are also a great tool to alleviate neighbor concerns, and build community trust on a project site.
Structure Condition Surveys (Crack and Damage Surveys)

If your construction project creates vibrations, and there are nearby structures, our pre-construction surveys help you avoid complaints or claims. Our experts utilize the latest video equipment to help document the existing conditions including cracks and other damage. Surveys can range in complexity from brief video scans to in-depth measurement and monitoring of cracks.

If your project has buildings or sensitive structures nearby, get off on the right foot. A solid public relations plan brings peace of mind to you and the building owners in the area. Performing third party existing condition surveys not only provides documentation of existing conditions of structures prior to any blasting or construction, it demonstrates to the homeowners that you’re providing a good faith effort to be a good civic partner.

Minimize, or eliminate, claims after the project is over by adding post construction surveys to your project. At the close of your work on a project, a post construction survey can help “close the book” on claims. Some claims come months and even years after a project is completed. Documentation of the before and after condition of a structure can help minimize or negate damage claims.

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GeoTest provides ground penetrating radar services for clients that need to locate items in concrete, below a slab on grade or utilities crossing a site. Our experienced technicians utilize the latest in concrete imaging radar to locate reinforcing steel, post-tensioned cable, electrical conduit and PVC pipe. GPR can also be used to determine slab or pavement thickness and voids in concrete or below a slab on grade, or utilities such as storm sewer and water main.

GPR technology provides immediate same-day results. Unlike X-ray, scanning concrete with GPR does not require site closure or exposure to radioactivity.
Pavement Management

Pavement management services range from the design to the rehabilitation of parking lots and roads, so that financial and performance goals can be achieved. GeoTest has significant experience and expertise working with private and public design, construction, and ownership representatives to manage concrete and asphaltic pavements, valuable assets that are frequently neglected.

Our services provide a wide range of pavement management services for roadways, parking lots, and airports, including:

- Pavement Design
- Pavement Evaluation Services
- Pavement Maintenance and Rehabilitation Plans

Some of our specific services include:

- Material Sampling and Testing
  - Pavement Coring and Soil Boring
  - Pavement Materials Testing (Pre-Construction, Concurrent, and Postconstruction)
  - In-place Structural Testing
  - Construction QA/QC Management and Planning

- Assessing and Monitoring Pavement Condition
  - Pavement Smoothness Profiling
  - Visual Conditions Surveys
  - Pavement Failure Investigations
  - Existing Pavement Section Analysis
  - Identification of Distresses and Possible Solutions
  - Ground Penetrating Radar

Our professional staff’s recommendations provide the basis for objective and rational decisions to be made during strategic planning and on-going asset management, which can extend pavement life spans and achieve financial objectives.

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