

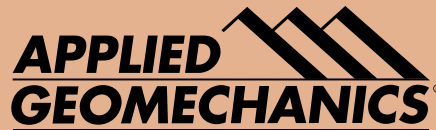


# Risk Management Solutions

Applied Geomechanics specializes in providing risk management solutions associated with existing infrastructure, as well as new construction of various structures. Our innovative approaches give clients state of the art and cost effective monitoring tools reducing both the risk and the construction cost. We are committed to designing and implementing a comprehensive and tailored program that meets your specific project and corporate needs.

Existing and under construction structures involve uncertainties creating risk. Contractors, designers and engineers generally make conservative assumptions seeking to minimize unknowns. However, the actual risk remains uncertain. By quantifying the elements of risk, Applied Geomechanics provides detailed information separating theories from facts.

Our comprehensive monitoring programs include: designing the monitoring system, preparing the specifications for instrumentation, procuring and installing the data collection and management system, and providing a web-based interface allowing clients to view data from any location.



## Integrated Monitoring Solutions

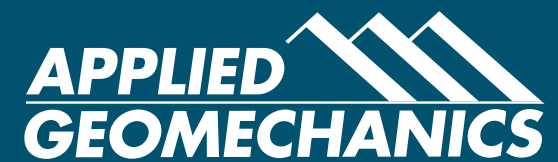
San Francisco 415-364-3200

Denver 303-693-7833

Boston 781-569-0001

Chicago 847-910-3785

[www.geomechanics.com](http://www.geomechanics.com)



## Integrated Monitoring Solutions

## Performance Monitoring

- Ground and/or structure monitoring before, during & after construction activity.
- Monitoring of construction activities both under ground and within structures.
- Available measurements include: deformations, strains, tilt, forces, stresses, pore pressures, vibrations and noise.

## Health Monitoring

- Design monitoring system and prepare instrumentation specifications requirements.
- Procure, install and operate instruments.
- Provide data collection and management systems for instrumentation.

## Real-time Monitoring

- Advanced state of the art technology.
- Web-based interface enabling customized data viewing, printing and reporting.
- Built-in warning systems that flags threshold and limiting values exceedances.
- Unlimited, secure access for any site and from any location.

# Applied Geomechanics Risk Management Solutions



**Performance Monitoring.** Installing instruments measuring ground and structure behavior throughout construction is a cost-effective approach for evaluating structures and adjacent facilities. The collected data provides early indications of actual performance. Unexpected or unacceptable performance can be addressed during the first stages of construction before serious and costly consequences occur. Long term monitoring of existing facilities provides critical data for cost effective asset management. Applied Geomechanics offers clients full visualization of data from a variety of sensors (tilt, strain, deformation, force, stress, pore pressure, vibration, and noise). By understanding their data, clients can make pro-active design adjustments and/or construction modifications. In addition, we provide state of the art technology including GPS monitoring (millimeter accuracy with our 3D Tracker software), and cost effective fiber optic monitoring.



**Health Monitoring.** Applied Geomechanics can design a custom monitoring program evaluating important design assumptions and warn of imminent failure. By documenting the current structure performance and pinpointing exactly where improvements are needed, this process offers the ability to address the most pressing components and improve performance at a minimal cost.



**Real-time Monitoring.** Innovations over the past few years, have led to the advancement of sensor technology, monitoring systems and telecommunications. Today Applied Geomechanics has the technical ability to capture and transfer recurring data for a variety of remote sensors to a web interface. The data is not only acquired automatically but is validated carefully, parsed, and delivered. This real-time integrated data management system allows users to identify trends and detect unexpected performance, providing time to undertake mitigation steps and/or make repairs to slow and/or avoid failure.

