

# B2I

RAW DATA. REFINED RESULTS.

**DATA YOU CAN TRUST.**  
**RESULTS YOU CAN BUILD ON.**



# SERVICES

# WHO WE ARE

BDI is a unique small business established in 1989 that offers expert diagnostic testing, structural monitoring, and nondestructive evaluation services around the world. Our core team is comprised of experts in civil engineering, physics, instrumentation design, and nondestructive testing. Since we develop and manufacture instruments, provide expert installation and evaluation services as well as safe and secure data management, we are the partner that you can trust.

With over a thousand successful projects around the world, we measure our own success through the satisfaction level of our partners, end users, and stakeholders. We believe that a reliable infrastructure can be realized by providing an advanced understanding of performance.

## STRUCTURAL TESTING & MONITORING



Our instrumentation services include diagnostic testing and structural health monitoring (SHM) for highway bridges, railroad bridges, hydraulic structures, buildings, and many other structures. Since we design and manufacture most of the equipment we use, we can customize our hardware and data collection procedures for any given project. We are also integrators for Campbell Scientific, Instatel, Leica, Geokon, and RST, to name a few. Along with the instrumentation services, we also offer analysis services, which reduces and refines the data to actionable data.

## DATA HOSTING



BDI is proud to provide Platform Interactive, a secure web-based visualization and data management solution for all your monitoring projects. Designed for anyone who needs to demonstrate awareness and control critical assets, Platform Interactive enables consistent, near-real-time presentation of complex data collected from any on-site instrument.

- + 24/7/365 phone support
- + Simple to use and maintain
- + Custom alerts and notifications
- + Advanced graphing utilities

**ACCURATE MEASUREMENTS COUPLED WITH  
QUALITY ANALYTICAL RESULTS IS THE  
FOUNDATION UPON WHICH BDI WAS BUILT**



## GEOTECHNICAL SERVICES

BDI is an authorized reseller for Campbell Scientific, Geokon, and RST and we have more than 25 years' experience with their hardware on a variety of projects! We keep a large inventory of geotechnical instruments and data acquisition equipment that can be purchased directly or BDI can be hired to install and manage the instrumentation. Projects include:

- + Slope Stability
- + Pore Water Pressure
- + Vibration Monitoring
- + Soil Pressure
- + Static Pile Testing

## HYDRAULIC STRUCTURES

One of BDI's very first commercial projects was to collect data during destructive testing on a lock chamber miter gate in 1990. Since then, we have always maintained a strong relationship with the USACE and a growing relationship with private utilities to provide quality testing and monitoring services.

- + Trunnion friction measurements in radial gates
- + Spillway condition assessment
- + Lock chamber performance
- + Crack monitoring
- + Measure tension forces in miter gate gudgeons
- + Support counter-weight balancing operations

## CONSTRUCTION



Construction and rehabilitation work often requires monitoring and/or testing in difficult field conditions. BDI has a range of solutions depending on the application and a long history of working closely with contractors on construction sites. Some examples include:

- + Concrete curing temperatures
- + Vibrations monitoring on adjacent structures
- + Cable or rod forces
- + Transportation loads on structural members
- + Wall or foundation movements during rehabilitation work
- + Slope stability, pore water pressure, and 3D movements of surrounding infrastructure
- + Automated Total Station (ATS) monitoring

We take the safety of our crews and everyone around us seriously! We have a comprehensive safety program to ensure the safety of everyone around our projects:

- + OSHA 10-Hour Hazard Awareness
- + OSHA 30-Hour Construction Emphasis
- + SPRAT Ropes Access Training
- + USACE 385-1 Training
- + Fall Protection Awareness
- + OSHA Scaffold Competent Person
- + Hand & Power Tool Safety
- + Aerial Work Platform Operator Safety Awareness
- + Traffic Safety Awareness
- + Confined Space Entry
- + First Aid/CPR
- + Breathing Apparatus Fit & Pulmonary Testing
- + Various Railroad Safety Awareness Programs
- + MSHA Mine Safety
- + Federal Motor Carrier Safety
- + Cleared to Work in ITAR-Rated Facilities

LEARN MORE AT [BDITEST.COM](https://www.bditest.com)

## OTHER SERVICES



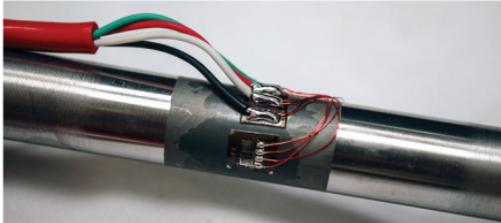
- + Manual monitoring
- + Building testing or monitoring
- + Environmental monitoring
- + Mechanical testing
- + Structural analysis for bridges and hydraulic lift gates
- + Cable force measurements
- + Bridge ratings using AASHTOWare Load Rating Software
- + If you don't see it here, give us a call, and we will likely know who can help

## CUSTOM STRAIN GAGE SERVICES



BDI is equipped with a laboratory for precision placement and installation of foil strain gages, including controlled heat curing if required. We also offer on-site foil gage installation services, such as:

- + Installing foil strain gages (adhesive or spot-weldable) on structural components
- + Installing torque/shear gages on rotating shafts
- + Custom design, prototype testing, and calibration of foil gage and strain/load transducers



BDI provides cost-effective instrumentation along with testing & monitoring services to federal and commercial clients worldwide.

Our engineers design and configure the instruments we use in order to ensure the quality of our measurements.



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SIZE: Small Business

FAR & AASHTO-Compliant as Prime or Subconsultant

