



A Higher Level of Reliability



Acuren Engineering Services

Improve asset performance and maximize return on investment with Acuren. Acuren's recent acquisition of Bretech Engineering lets us significantly expand our condition monitoring, advanced diagnostics, and engineering services. Our enhanced services allow you to:

Improve operational efficiency and reduce costs.

Simplify asset management with a complete array of services from one provider.

Prevent costly work slowdowns and stoppages.

Monitor performance remotely, fixing problems fast.

Uncover the root cause of failure quickly with expert equipment vibration and structural diagnostic services.

a Rockwood Company

Optimize your operations with Acuren Engineering Services.

Our engineering services puts you on friendly terms with your equipment, letting you forge a lasting partnership. From troubleshooting to complete asset management packages, you'll benefit from our professional service and deep experience.



Reliability Engineering

Acuren applies a combination of predictive and preventative technologies to deliver an optimized equipment maintenance plan. We evaluate, maintain, and, if required, redesign equipment for reliable service.

- Our proprietary Score™ Assessment evaluates all aspects of your condition monitoring program and clearly defines how to get the most out of your resources.
- Extensive vibration control experience in a variety of industries and with virtually every type of equipment allows us to accurately identify the root cause and recommend the best solution.

Diagnostics and Troubleshooting

Whatever challenge you present us with, we will get to the bottom of it. We can provide complete project support from diagnostics and troubleshooting to recommendations and corrections.

- We utilize highly specialized techniques deployed by experienced, results-oriented teams.
- When sporadic or transient problems occur, Acuren's remote monitoring services capture data and identify trends.



Corrective Services

We offer a number of corrective solutions for your equipment alignment and balance issues. We also specialize in structural correction. Our corrective services include:

- Alignment & balancing
- Finite element analysis (FEA)
- IN-SITU roll balancing
- Structural correction

Condition Monitoring

With pressure on profitability, you can't afford not to know how – and what – your equipment is doing. We utilize many techniques to diagnose and monitor equipment condition including:

- Infrared
- Ultrasound
- Motor current analysis (MCE)
- Vibration analysis
- Oil analysis



CONDITION MONITORING

Vibration analysis
Infrared
Ultrasound
Motor current testing (MCE)
Oil analysis
Online equipment monitoring
Process monitoring
Continuous equipment monitoring
Pulsation analysis

DIAGNOSTICS AND TROUBLESHOOTING

Advanced diagnostics
Operating deflection shape analysis (ODS)
Modal analysis (natural frequency testing)
Remote monitoring (vibration, process)
Structural evaluation and testing
Corrective services
Laser shaft alignment
Rotor balancing
Structural corrections
Finite elements analysis
Torsional analysis

RELIABILITY ENGINEERING

SCORE assessment
Vibration control solutions
-Force reduction
-Mass addition tuning
-Isolation
-Damping

SPECIALIZED SERVICES

Equipment maintenance plans
PM and PDM evaluation and optimization
Root cause failure analysis
IN-SITU dryer balancing
Field engineering and repair services
Engineering services
Vibration calibration services
Equipment and machine baseline assessment services

CONSULTING SERVICES

Field analysis of failure causes
Fitness for purpose
Weld repair procedures
Fracture mechanics
Materials testing
Corrosion studies
Quality assurance

LIFE ASSESSMENT STUDIES

Strain gauging
Stress analysis
Finite element analysis
Fitness for purpose
Air, water, and oil contaminant analysis



Acuren services thousands of clients every day in the following industries:

- **REFINING AND PETROCHEMICAL**
- **MINING**
- **PULP & PAPER**
- **POWER GENERATION AND TRANSMISSION**
- **RESOURCE BASED HEAVY INDUSTRY**
- **WIND ENERGY**





Rely on Acuren to provide expert condition monitoring, advanced diagnostics, and engineering services. We employ 3,000 professionals in over 80 locations throughout North America. We strive to exceed our client's expectations with the best resources, technology, and methods available today. For more information regarding our Engineering Services, contact 1-800-252-1774 or reliabilityservices@acuren.com.

www.acuren.com/reliabilityengineering
1-800-252-1774
reliabilityservices@acuren.com