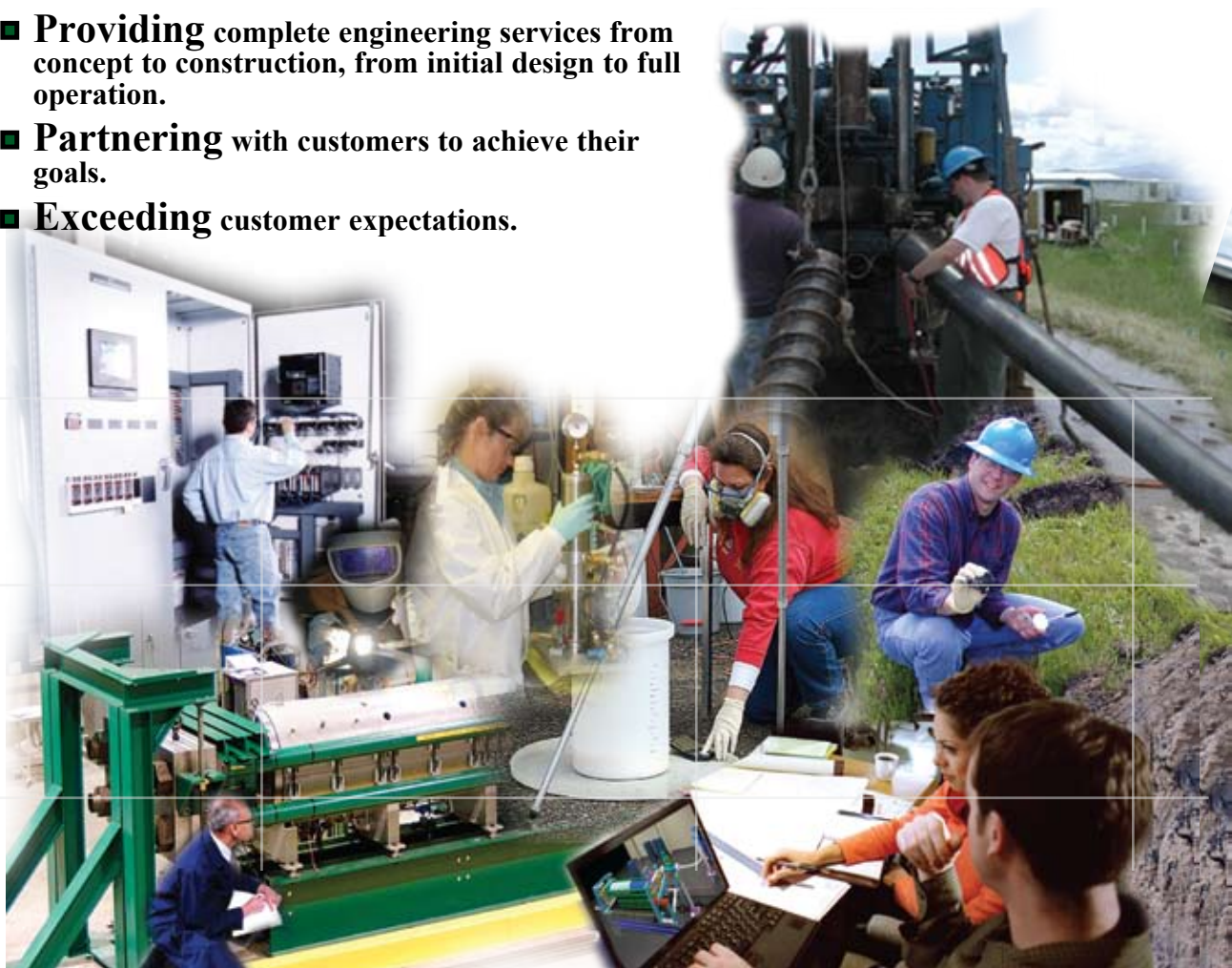




# Engineering Services

- **Serving** government, public, and private clients for more than 30 years.
- **Solving** our customer's most complex challenges with innovative solutions, dedicated professionals, and a commitment to excellence and customer satisfaction.
- **Providing** complete engineering services from concept to construction, from initial design to full operation.
- **Partnering** with customers to achieve their goals.
- **Exceeding** customer expectations.



**MSE Technology Applications, Inc.**

*Excellence is the rule at MSE, not the exception.  
Our product is a satisfied customer.*



Hydroelectric Monitoring & Control



Utility Maintenance



Arsenic and Heavy Metals Testing

# Delivering: Engineering Solutions

**MSE** is committed to providing excellence and value to our customers. Your project is unique. We'll give you fresh ideas while staying within project boundaries. You have our collective experience and the ingenuity of our people working with you on every project.

For 30 years we have been earning the respect of our customers, garnering a reputation synonymous with innovation, professionalism, and customer satisfaction.

We are ready to work for you at a moment's notice with offices across the United States, licensed Professional Engineers (PEs), Project Management Professionals (PMPs), and a total commitment to project fulfillment.

We are proud of our people, our reputation, and most importantly, the satisfaction of our customers.

## MSE's Full-Service Engineering

- Mechanical Engineering
- Electrical Engineering
- Civil/Structural Engineering
- Geophysical Engineering
- Chemical/Process Engineering
- Metallurgical Engineering
- SCADA Engineering
- Instrumentation & Control Engineering
- Industrial Control Panel Fabrication (UL)
- Hydrology
- Cost Estimating/Economic Analysis
- Environmental Engineering
- Safety Engineering
- Project/Program Management
- Water and Soil Analysis
- Construction Specifications/Drawing Development
- Construction Management



Dedication - On every project, our engineers strive to exceed your expectations. Experienced Project Management Professionals ensure your projects are completed on time and within budget.

We turn our experience and creative thinking into solutions that work for you.

Our engineers are always mindful of *safety, regulation, and environmental issues.*



# All engineering firms are not created equal.

MSE has provided engineering services for 30 years. Our experience is diverse and based on thousands of successful projects. Let us be your solutions provider.

## Electrical and Mechanical Engineering

**Design & Support Ultrahigh-Pressure Test Facility.**

U.S. Army, MMATC, MT

**Process Piping Flushing/Cleanup Procedure Development for Safe Shutdown.** Fernald Closure Project, OH

**Lift Station Modifications.** TolTest, Inc., OH

**Fort Bragg Fuel Detection System.** CERL, IL

**Mechanical Design.** General Dynamics, Conoco Phillips

**Industrial Electrical Design.** Bio Source

## Chemical and Process Engineering

**Arsenic/Heavy Metals Removal, Reductive Precipitation Technology.** Superfund Sites in CA and MT.

**Legacy and F-Canyon Sorbent Testing, Stabilize/Solidify.** DOE Savannah River Site, SC

**Molten Salt Oxidation System. Dispose of Unneeded Munitions.** Republic of Korea

**THOR™ Drum Pyrolysis Process Install/ Test.** DOE, MT

**Selenium removal from contaminated groundwater.** Salt Lake City, UT

## Control & SCADA Systems

**Automated Control System for Launch Bar Seating Confirmation.** Naval Air Warfare Center AD (LKE), NJ

**Meteor Burst, Solar-Powered Remote Monitoring System.** DOE, MT

**Remote Monitoring Units on California State Aqueduct.** Dept. of Water Resources, CA

**SCADA Hydroelectric Plant Control System to Monitor/ Control 9 Plants along the Missouri.** PPL Montana

## Cost and Risk Analysis

**High-Level Waste Treatment - Cost and Risk Analysis Simulations.** DOE, Hanford, WA

**Cost to Decontaminate, Decommission, Demolish Nuclear Research Facilities.** Oak Ridge National Laboratory, TN

**Unit Costs for Screening Evaluations for Groundwater Contaminant Source Treatment.** East Tennessee Technology Park, TN

**Cost Model for Monitored and Enhanced Natural Attenuation.** Savannah River Site, SC

## Hydrogeology/Geophysical/Geological Services

**Geochemical Modeling - Mobility of Uranium.** DOE, 200 West Area, Hanford, WA

**Downhole Seismic Source Design For High-Resolution Seismic Tomography Applications.** ID

**Historic Mine Property Evaluation.** Aspen City Government, CO

**Geotechnical Investigation for Designing Waste Treatment Plant.** INTEC at Idaho National Laboratory, ID

**Site Characterization, Soil Sampling, Geoprobe Work.** Idaho National Laboratory, ID

## Environmental Engineering

**Mercury Uptake in Fish Study, Lower East Fork Poplar Creek.** DOE, Oak Ridge, TN

**Characterization and Decommissioning of Building 3515.** DOE, Oak Ridge Site, TN

**Reuses for Unserviceable Tank Tracks.** Fort Bragg, NC

**Aqueous Brake Washer Implementation.** CERL, VA

**Remediate Gasoline-Contaminated Soil and Groundwater.** George's Conoco, MT

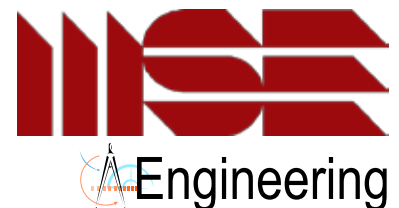
### Acronyms:

DOE: U.S. Department of Energy

MMATC: Mike Mansfield Advanced Technology Center

INTEC: Idaho Nuclear Technology and Engineering Center

CERL: U.S. Army Construction Engineering Research Laboratory



**Ideas Possibilities Breakthroughs Solutions**  
lead to that generate to create



**MSE Engineers working for you:**

*Precise, quality work* - our reputation is based on our quality work.

*Creativity, flexibility, and ingenuity* - we tailor solutions to customer specific situations.

*Active engagement* - from the top down, we are actively working to satisfy our customers.

*Accessibility* - our staff is personally available to address issues and monitor progress.

*Proactive communication* - we realize customer input is essential to a successful project.

*Experienced professionals* - the right training and practical work experience to streamline projects, manage schedules, and anticipate problem areas.

MSE Headquarters Quality Management System is ISO 9001:2000 Certified

**MSE** Engineering Services - We effectively manage people and processes to exceed customer expectations. Our technical expertise is matched only by our commitment to work with you at all levels.



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