



J3 Advanced Engineering Technologies is a *best-in-class*, woman-owned, rural area, small business. It provides the diversified individual capability and experience required to accomplish quality work efforts and offers a full complement of services

J3 Services Provided

- Soil and sediment treatment (metal and non-metal)
- Treatment/mitigation for metals of concern
- Treatability studies
- Bench-scale testing services
- Scale-up testing services
- Prototype demonstrations
- Field remediation services (contaminated industrial, nuclear, mining, petroleum, etc.)
- On-site supervision
- Staff augmentation (business management, project management, construction, geochemistry, D4 management [deactivation, decommissioning, decontamination & demolition])
- Construction and demolition project management (industrial, nuclear, mining, petroleum, etc.)
- Environmental services
- Incubator for new product/technology development



Real Life Experience:

J3 brings together a group of technical specialists who have extensive, hands-on knowledge of site characterization, treatability testing, technology selection, technology implementation and usage, construction, site remediation, site demolition and closure.

J3 has outstanding technical expertise with scientists and engineers at the Ph.D, M.S. and B.S. levels. Their experience includes satisfying the business procedures of working in the government and private business sectors. Although J3 is a new firm, our employees have over 100 years of cumulative professional experience providing environmental solutions and services to clients in the US and worldwide. J3 personnel have conducted treatability studies, full scale field operations related to the removal and/or stabilization of numerous inorganic, organic, radioactive, and explosive contaminants within aqueous and/or organic fluids, leachates, soils, sediments, sludges, biological substances, and gaseous materials.



Technical Knowledge and Expertise:

Our technical personnel have in-depth knowledge of environmental treatment technologies associated with numerous waste streams. Including river sediments, acid rock drainage, low level radioactive liquids, contaminated gas streams and numerous solid wastes.

Qualified Testing Facilities:

Some 4500 square feet of testing and development facilities and associated equipment are available for immediate use.

Emphasis on Safety and Quality:

We are dedicated to providing quality work, maintaining a highly safe working environment and upholding an excellent safety record.

Successful Project Management Experience:

Our personnel have proven experience to successfully and economically manage all aspects for projects including scope development, procurement, accounting, project controls, staffing and document control.

Location:

J3 is located at the Montana Tech Research Center in Butte, Montana. The buildings consist of 5600 square feet of newly renovated offices and research lab space with a second, 3200 square foot high-bay building for scale-up testing, advanced pilot projects, and hardware fabrications.



Staff Expertise

- Water and waste water treatment
- Personnel supervision and management
- Contractor/consultant oversight
- Project services
- Applied and basic geochemical research
- Project controls
- Treatment of contaminated soil
- Environmental permitting
- Project management
- Budgeting/forecasting
- Geochemical numerical modeling
- Nuclear facility construction management
- Extensive experience within the CERCLA process
- Geostatistical analysis
- Analytical analysis method development
- Design of statistical experiments
- Experienced state and federal regulatory liaison
- Data collection/site characterization & monitoring
- Implementation of environmental treatment technologies
- Nuclear Facility Decontamination and Demolition
- Liquid waste solidification and/or stabilization

Organization Memberships:

Montana Petroleum Association (MPA)




Specialized Products:

J3 has the exclusive rights to market a patented metals treatment agent named Molecular Bonding System (MBS). MBS is a treatment agent used for metal contamination in soils, sediments, sludges, process wastes, fly ash, lead paint chips and lead residues, water and flue gas including scrubber and bag house applications. MBS can be used in combination with super absorbent products and other treatment technologies to solidify, dewater and reduce the leachability for contaminant metals of concern. J3 welcomes the opportunity to conduct bench-scale treatability studies using MBS for your specific waste at no cost to you.

The MBS technology uses a proprietary blend of sulfides, phosphates and carbonate compounds that aggressively bind with RCRA Heavy Metals to render them into highly insoluble forms that allow the waste streams to pass TCLP.

MBS was evaluated and accredited by the US Environmental Protection Agency (EPA) as part of the Superfund Innovative Technology Program Evaluation (SITE) Demonstration to prove innovative remediation technologies.



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