Shane Hansen

Experienced research associate with eighteen years professional and academic experience in various fields within physical and biological sciences and geotechnical assessments. Extensive experience developing and coordinating applied research in copper leaching, bioleaching, water treatment, remediation, and source and migration control of environmental liabilities.

Resourceful usage of design and fabrication experience to create novel experimentation systems for lab and pilot scale project design including construction phases. Experienced team leader and laboratory manager working with a diverse team covering several disciplines and backgrounds.

Provides technical support to environmental engineering and research projects including:

- Technical expertise and recommendations for the design, construction, and operation of lab-scale to pilot-scale research projects, and the design of full-scale systems
- Coordinate multiple domestic and international projects concurrently between internal and external stakeholders
- Organize and maintain testing data according to established quality assurance and quality control procedures
- Create and coordinate procedures according to best laboratory practices and safe operations
- Initiate review of potentially hazardous chemicals and potential reactivity for research
- Coordinate and direct field work-related logistics for sample collection, project planning, site schedules, and pilot testing
- Coordinate new projects with laboratory staff for approvals, recommendations, and establish needs from local site and facility
- Serve as intermediary between internal and external analytical laboratories, including all Environmental Protection Agency (EPA) mandated testing and sampling
- Expert in field sampling, sample preservation, and laboratory techniques according to local, state, and federal protocols

Specializing in:
Environmental Technology and Research
Laboratory Operations
Field Application and Design
Technical Design

Years of Experience: 13

Education
BSc Physical Sciences, Northern Arizona University, 2003

Special Training
40-hour Mine Safety and Health (MSHA) New Miner and Annual Refreshers
40-hour Hazardous Waste Operations and Annual Refreshers
10-hour Occupational Safety and Health Administration (OSHA) training
24-hour Fatality Prevention Training, Management Level
First Aid and CPR training
IATA Hazardous Air Shipments certified
USDOT Hazardous Materials Awareness and tri-annual refreshers