

Stephen Shields
San Angelo, TX

SKILLS Proficient with MS Office, ArcGIS 10.0, Oracle, and Adobe Acrobat Pro.
Passed the Indiana Fundamentals of Geology Exam October 2013.

EDUCATION

Missouri State University, Springfield MO 65897 August 2011 – August 2013

Master of Science (M.S.) in Geospatial Sciences in Geography and Geology

- “Petrographic Analysis of the Lamotte Sandstone in Missouri: Potential for Carbon Sequestration”.
 - Sampled and investigated core of the Lamotte Sandstone from three exploratory drill holes in Missouri.
 - New data was used to enhance and modify existing knowledge on depth, thickness, depositional history, and sedimentary characteristics of the Lamotte.
 - Petrographic analysis and results were used in conjunction with two additional research projects aimed at determining potential for CO₂ sequestration.
- Performed a petrographic analysis on shallow igneous intrusive rocks in Big Bend National Park, TX. Collected 5 samples of a fayalite syenite intrusion which hadn’t been studied before.

Graduate Certificate in Geospatial Information Science (GIS)

- Acquired data, designed databases, and presented information with detailed visuals. Created figures with GIS for use in my thesis and other graduate level courses.

South Dakota School of Mines & Technology, Rapid City SD 57701 May – June 2011

Engineering Geology Field Camp

- Mapped the complex geology of the Black Hills, created stratigraphic columns and cross sections, mapped a contaminate plume, and quantified geologic hazards. Utilized LiDAR and field data to analyze slope stability using Rocscience and Vulcan software packages.

Grand Valley State University, Allendale MI 49401

August 2007 – June 2011

Bachelor of Science (B.S.) in Geology

- Vibracored and analyzed sediment cores in a glacial environment, installed a shallow monitoring well, interpreted geophysical logs, and performed sieve, hydrometer, and Atterberg limits tests.

TEACHING EXPERIENCE

Angelo State University, San Angelo TX 76909

August 2019 - Present

- Instructor of Physical Science, Physical Geology, and Geohydrology

Angelo State University, San Angelo TX 76909

January 2019 – May 2019

- Adjunct Instructor of Geomapping Fundamentals.
- Responsibilities included creating and modifying course work such as the syllabus, class projects, and grading scheme for a 24 student class.
- Used my professional experience to focus on important techniques and common difficulties when using ArcGIS.

ITT Technical University, South Bend IN 46635 March 2014 – July 2014

- Adjunct Instructor of Environmental Science and Technical Physics. Classes consisted of mostly non-traditional students pursuing degrees in non-physical science fields.
- Tutored math (algebra to calculus) and physics two times per week.

South Bend Community School Corp., South Bend IN, 46601 January 2014 – July 2014

- Substitute Teacher K-12. Jobs range from teaching kindergarten classes, to special needs, to high school. Developed the ability to adapt to a new challenge every day.

Missouri State University, Springfield MO 65897 August 2011 – May 2013

- Graduate Teaching Assistant and Research Assistant.
- Taught Introduction to Geology Lab sections and was responsible for writing test material.
- Took a graduate level environmental assessment course. Conducted a Phase I ESA as part of a group, and was tasked with using GIS to delineated surface water draining areas, and to research dye traces to understand the groundwater flow in the area.

PROFESSIONAL EXPERIENCE

WSP, USA July 2014 – August 2019

Environmental Planner, Honolulu HI 2017 - 2018

- Consulted for the FHWA, Hawaii Department of Transportation, County of Kauai, County of Hawaii, County of Maui, Department of Health, Clean Water Branch, and the US Army Corps of Engineers.
- Prepared submittals and/or permits for Section 106, Section 7, Section 404, Section 401, NEPA and CATEX Determination, SPCC, SWPPP, Noise Variance, and NPDES.
- Used GIS to map the storm drain system for the Maui DOT MS4 (Municipal Separate Storm Sewer System) program.

Geologist, South Bend, IN and Houston, TX 2014 - 2016

- Assisted with groundwater sampling activities including monitor well water level gauging, monitor well purging with disposable bailers, measurement of dissolved oxygen concentrations using a calorimeter, and groundwater sample collection for additional analysis.
- Drew over 200 well schematics in Microsoft Excel from old well records for an area of review (AOR) study.

Assistant Project Manager/Cost Control Specialist, Houston, TX 2015 - 2017

- Worked as a co-project manager/cost control engineer for 1.5 years. Wellsite Geologist/Engineer, South Bend, IN, and Houston, TX 2014 - 2017
- On the job training for drilling procedures and operations. Observed drilling of Class II brine disposal wells, cavern gas wells, and acid gas injection wells.
- Tasked for completion of a brine disposal well. Successfully oversaw running of 7" and 4-1/2" casing, and well head assembly.
- Managed numerous Mechanical Integrity Tests (MIT's). Tests included annulus pressure tests, buildup-falloff tests, radioactive tracer tests, temperature surveys, and cavern photon logs. Prepared final reports to the client.

- Analyzed buildup-falloff test data in PanSystem software. Compiled final reports for a Class I hazardous well and a Class II brine disposal well.