

# MACKENZIE SMITH

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## ENVIRONMENTAL SCIENTIST

### EDUCATION

Texas A&M University, College Station, Texas

August 2016-May 2019

*Bachelors in Environmental Sciences*

Blinn College—Bryan

August 2013-May 2016

*Associates in Social Sciences*

### EXPERIENCE

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#### NEON Temporary Field Technician

March 2020-Present

D08 Ozarks Complex

- ✓ Follow established, standardized field procedures for sample collection and handling; record and verify accuracy of data from sample collections; process samples in the laboratory; send samples to external analytical labs.
- ✓ Perform field sampling activities as assigned including: ground beetle collection (pitfall trapping), mosquito collection (CO2 light traps), tick collection (dragging and flagging) and soil core collection.
- ✓ Test, troubleshoot and operate tower, soil and aquatic instruments, calibration equipment and test fixtures.
- ✓ Inspect and maintain civil infrastructure including boom arms, sensor mounts, towers, boardwalks and instrument huts.
- ✓ Monitor and sample aquatic sites for water quality, biological indicators and physical properties of site (e.g. gaging streams, geomorphic mapping)
- ✓ Perform plot establishment by locating plots with GPS navigation as well as measuring and marking plots.
- ✓ Operate laboratory equipment (e.g. Wiley Mill, drying oven, analytical balance, centrifugal mill, pH meter, microscope and muffle furnace)

#### STARC Marine Technician Intern on USCG Healy

July 2019-August 2019

Marine Advance Technology Education (MATE)- North Pole

- ✓ Lived and worked on a coast guard ice cutter ship
- ✓ Operating and monitoring oceanographic instruments
- ✓ Communicating with scientist and crew to ensure the acquisition and delivery of quality data
- ✓ Communicating with scientist and crew to ensure smooth operations.
- ✓ Trouble shooting equipment while underway
- ✓ Writing comprehensive documentation on underway protocols.
- ✓ Test, Troubleshoot and operate oceanographic instrumentation and lab instruments

#### Student Technician for AgriLife Extension

June 2018-May 2019

Texas A&M University

- ✓ Field Research-several hours of note taking, sampling, maintaining, and studying crops
- ✓ GIS work with RGB scales of crops
- ✓ Traveled to research sites across Texas with fellow scientists
- ✓ Maintained organization of laboratory and research data

#### Student Worker for International Ocean Discovery Program (IODP)

January 2017-January 2018

Texas A&M University

- ✓ Assisted Curatorial manager in the Gulf Coast Repository (GCR)
- ✓ Filled core sample requests in the GCR
- ✓ Assisted visiting scientists with core sampling and sample parties
- ✓ Maintained organization of laboratory and ocean cores

#### Student Technician for Stable Isotope Geosciences Facility (SIGF)

May 2017-November 2017

Texas A&M University

- ✓ Sample preparations for Erba NA 1500 Elemental Analyzer and Thermo Scientific Kiel Automated Carbonate Device
- ✓ Maintained organization of laboratory materials
- ✓ Assisted on designated projects

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## LEADERSHIP AND INVOLVEMENT

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**Treasurer of Soil and Water Conservation Society**

September 2016-December 2016

Texas A&amp;M Student Chapter

- ✓ Maintained a leadership position over the club's finances
- ✓ Attend meetings
- ✓ Participate in fundraising events
- ✓ Promote the conservation of soil and water on a university and national scale

**Volunteer for Preschool Program for Children with Disabilities**

October 2015-December 2015

Rock Prairie Elementary School

- ✓ Offered support to families by caring, mentoring, counseling, and providing practical assistance to children in meeting the demands of daily living
- ✓ Helped special needs children understand their emotions and taught positive ways to cope
- ✓ Helped special needs children build confidence in a class room setting thus helping them in their developmental growth

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## RESEARCH AND PRESENTATIONS

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Smith M., Hale A., Van Fleet A., Wilkinson K., Kwok J. and Hill T. 2019. *EPA Impaired Waterbodies in Texas: Red River Basin Report*. Presentation at Texas A&M Geoscience Convention. College Station, TX.

Limon VY., Aitkenhead-Peterson JA, Smith M., Speights C., Barton B., Lashley M., Jordan H., Tomberlin J, Mower J. and Schwab AP. 2018. *Effect of mass mortality events on water extractable soil nutrients*. Presentation at Ecological Society of America Annual Meeting. New Orleans, LA.

Poston D, Smith M, Horstman M, Reynolds A, Standefer M, Berry H, Mehlmann M, Buck A, Hayes K. 2016. *Students Use Social Media to Throw Birthday Party for Oldest Living Person*. Conducted by Texas A&M University SOCI 320.

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## SKILLS

Proficient with GIS, MATLAB, QINSy, Global Mapper, Microsoft Word, PowerPoint, Excel Spreadsheet, Adobe illustrator, Photoshop, Inventor, and Auto CAD.

## TRAINING

Underway Network (RVTEC 2019), Rigging (RVTEC 2019), Marine Technician (MATE 2019), CPR & Basic Medical Training

## CERTIFICATIONS

BBP Biosafety, BSL-2, IACUC certification