

Ellen Buelow

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Education

University of Minnesota

Coding Boot Camp: Web Development Certificate

July 2019

San Diego State University

M.S. in Geological Sciences

May 2016

University of Wisconsin-Eau Claire

B.S. in Geology, B.A. in Spanish

December 2013

Experience

Geosyntec Consultants - Environmental Staff Scientist

2017-2018

Worked on project teams in office and remotely to collect data, analyze results, and prepare reports for clients.

- Organized and oversaw subcontractors during test pitting, stormwater investigations, and drilling
- Drafted proposals, Phase I, and Phase II reports
- Reviewed emails and other records to determine PRPs or historical releases
- Conducted quarterly site visits to monitor VOCs and methane levels.
- Summarized data in Excel, Access, and ArcGIS.
- Lead field work on a high-profile PCB project. Coordinated fieldwork with local and state agencies, set up subcontractors and recorded field data to delineate the extent of pollution.

M.S. Thesis: Neogene Basin Evolution

2014 - 2016

Completed a detailed stratigraphic analysis of the Cacheuta foreland basin.

- Identified, described, and mapped formations
- Collected and processed detrital samples
- Interpreted U/Pb and (U-TH)/He age trends, provenance, and tectonic events associated thrust events.

San Diego State University Teaching Assistant

2014-2016

During my two years as a TA, I also re-wrote all 10 labs and lead as the head TA for all oceanography labs.

- Communicated with students during lab and office hours
- Prepared and lectured on lab topics

Computer and Geoscience Skills

Air Monitoring and Industrial Compliance

- Monitored silica dust levels to meet federal health and safety standards
- Summarized engine emissions and air-related permit applications for New Jersey and Arizona

Soil Skills

- Capable of naming and identifying soils using the USCS soil classification scheme
- Practiced at logging shallow soil borings to delineate contamination in shallow soils
- Skilled in soil and sediment sample collection techniques (VOCs, PCBs, and Heavy Metals)
- Experienced at logging data in access and display sorted data in ArcGIS
- Created maps of soil sampling results

Front-End Web Development

- Practiced at html, CSS, Bootstrap, JavaScript, and JQuery
- Experienced with GitHub, Postman, Slack, Visual Studio Code

Activities and Awards

- HAZWOPER (8 hr Refresher Feb. 2018)
- Red Cross CPR and AED Certified (2018)
- MN DNR Volunteer
- 2016 Outstanding Master's Thesis
- UWEC - Field Camp I & II Excellence Awards
- SDSU Outstanding Teaching Assistant Award (2015, 2016)

References available upon request