

Leslie Hartzell

(610) 663-4665 | leslie.hartzell@rve.com
3112 Moravian Ave, Allentown, PA 18103

Education

Lehigh University

Bethlehem, PA | 2019
Masters of Science, Geology

Lafayette College

Easton, PA | 2016
Bachelor of Arts,
Environmental Studies
Bachelor of Arts, Art
Minor in Geology

Skills

Earth Volumetric Studio (EVS),
Power BI, ArcGIS, Data Analysis, Surfer,
Grapher, Microsoft Office Suite, Adobe
Creative Suite, SEM, XRD, XRF, Electron
Microscopy, Landlab, Final Cut Pro

Professional Affiliations

- American Geophysical Union (AGU)
- Geological Society of America (GSA)
- Board of Director (BOD) 2023 – 2025,
Pennsylvania Council for Professional
Geologists (PCPG)
- Communications Co-Chair
2024 – Present

Certifications

- OSHA 40-hour Hazardous
Waste Operations and Emergency
Response (HAZWOPER), 2019
- Current 8-hour HAZWOPER
refresher (2024)
- OSHA 10-hour Construction
(2021)
- First Aid and AED certified

Work Experience

Remington & Vernick Engineers | Environmental Project Manager
Allentown, PA | October 2023 – Present

Project Management: Management of Due Diligence services inclusive of Phase I and II Environmental Site Assessments, Hazard Materials Survey, ALTA Survey, Indoor Air Quality Investigations, NJ Condominium Certification, and GPR scans. Management of NJ Historic Fill Investigation, Wetland Delineation, Radon Testing, Abatement and Demolition, and Geotechnical Investigations. Emergency spill response and coordination with PADEP and client. Other management responsibilities include management of subcontractors, development of proposals and statement of works for client submission and authorization, project setup in Deltek Vantagepoint system, billing, invoicing, budget/deliverable tracking for large clients, and performing QA/QC of deliverables. Meetings and teleconference calls with clients to share results of investigations and implications for the project. Preparation of report documents including Preliminary Assessment Reports, Environmental Desktop Reviews, Environmental Impact Assessments, HDSRF Applications, Brownfield Development Area Applications, Phase I and II Environmental Site Assessments, Hazardous Material Survey Reports, and Indoor Air Quality Summary Reports. Coordination and management of field investigations.

Field Experience: Performance of Due Diligence activities inclusive of Phase I and II Environmental Site Assessments, Hazard Material Surveys, and GPR scans. Field sampling includes indoor air quality testing (mold and dust sampling), interior and exterior asbestos containing building material (ACM) sampling, ACM roof coring, and lead-based paint (LBP) sampling. Emergency response field investigation, screening via photoionization detector (PID).

Sanborn Head | Senior Project Geologist / Hydrogeologist
Horsham, PA | June 2022 – September 2023

Field Experience: Development of work plans for field implementation for quarterly groundwater sampling events, in-situ chemical oxidation (ISCO) remediation system, subsurface drilling, soil sampling, high resolution site characterization, multi-aquifer transducer deployment, bedrock investigation, and routine site visits. Develop and oversee implementation of field events; involves coordination with data team, field personnel, property owners, and subcontractors. Develop project specific health and safety plans.

Technical /Management Experience: Development and finalization of technical reports and documents pursuant to state specific regulations for site remediation. Development of cross sections displaying geology/stratigraphy, analytical data, contaminant isopleths and flow nets. Experience with meeting regulatory deadlines, in compliance with different site programs and state regulations. Risk assessment of potential migration of constituent of concern to off-Site property through geochemical analysis. Development of 3D EVS models used for data analysis and high resolution site characterization.

Project Management: Completed year-long project management training within the company. Manage bi-yearly report submitted to governing body for a site located overseas. Manage budget/invoices for various projects. Lead team of entry level staff. Tasked with leading field efforts and managing the field team, including pre-field team calls to discuss scope of work, health and safety considerations, provide technical support and insight. Communication with clients including development of proposals, presentations of analytical results and field investigation findings, and coordination with subcontractors locally and overseas.

Additional Office Role: PA office Health and Safety officer and coordinator. Peer advisor for Emerging Professionals Affinity Group within Sanborn Head.

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Papers Presented and Published in Conference Proceedings

- “Chemical Controls on Volcanic Ash Morphology: Insights from the 2016–2017 Eruption of Turrialba, Costa Rica”, Proceedings of the American Geophysical Union Centennial Conference in Washington, DC, December 2018.
- “Calculating Volcanic Explosivity Index (VEI) in Real Time during an Eruption”, Proceedings of the American Geophysical Union Centennial Conference in Washington, DC, December 2018.
- Master Thesis Defense: “Geochemical Controls on Volcanic Ash Morphology: Insights from the 2016–2017 Multi-Phase Eruption of Turrialba, Costa Rica”, April 2019.

Work Experience Continued

Sanborn Head | Project Geologist / Hydrogeologist

Horsham, PA | Aug 2020 – June 2022

University Collaboration: Part of the team who developed a relationship with a local university, Lehigh University, and began collaborating with current students at the university on a research project. Developed a project work plan for the students to follow, coordinated team meetings and site visits, oversaw and developed work on this project through mentoring a summer intern. Project collaboration will continue this year with the awarding of a PITA grant for which we collaborated on.

Field Experience: Acted as field team lead on a number of events, responsibilities include management of equipment, staff, health and safety requirements, communication with property owners, preparation of necessary field documents, holding team meetings, teaching sampling techniques, implementation, and pilot testing of digital field forms, and being on site to facilitate the success of the events. Events ranged from routine groundwater monitoring events, soil sampling events, monitoring well and CMT multi-level monitoring well drilling and development, and site surveys.

Technical Experience: Assisted with pre-characterization for a redevelopment and excavation project. Assisted with environmental engineering and consulting support using high-resolution characterization techniques at a former industrial facility. Prepared daily operations and monitoring summary reports and data analysis, development of EVS 3D models, ArcGIS figure generation, flooding visualization, cumulative distribution function (CDF) plots, mass estimates, technical report writing, and subcontractor and client communications.

GHD | Geologist / Hydrogeologist

North Wales, PA | June 2019 – August 2020

Field Experience: Sediment sampling, Groundwater sampling, Water level measurements, Transmissivity testing, Transducer installation, Waste characterization, Surveying of sample locations (Trimble RTK GPS Unit)

Technical Experience: Generation of isocontour figures using Surfer, groundwater and soil analytical and field data analysis, implement interactive visual GIS platform to display historical and recent data, Technologically Enhanced Naturally Occurring Radioactive Materials (TENORM) investigation, groundwater flow analysis, Hydrostratigraphic Unit (HSU) designation, cross section updates using literature research and analysis of soil boring and well logs, development of stratigraphic sequence of understudied area, analysis of groundwater investigation results for on-site and off-site source plumes, development and coordination of scope of work for field programs.

Project Coordination: Coordinate weekly calls with clients and internal team, organization of project files, preparation of meeting minutes, agendas, and presentation materials for agency correspondence and client meetings.

Technical Reports and Documents: Development and finalization of Remedial Action Work Plan (RAWP), Conceptual Site Model (CSM), Long Term Monitoring Well Plan (LTMP), and subsequent project proposals and memorandums. Hydrogeology Service Line Coordinator in the Northeast Region.

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Teaching and Research Experience

Lehigh University | Adjunct Professor

Bethlehem, PA | January 2022 – January 2025

Assigned to teach entry level Earth and Environmental Science course “Natural Hazards: Impacts and Consequences” for the spring 2022 semester and “Environmental Geology” for the fall 2022 and spring 2023 semesters. Responsible for developing lesson plans, teaching materials, and course assignments/evaluation materials for 50 plus students per semester.

Temple University | Teaching Assistant

Philadelphia, PA | August 2021 – December 2021

Position held for the fall semester of the 2021–2022 academic calendar year. Assigned to an entry level Earth and Environmental Science course “Disasters: Geology vs. Hollywood”. My main role was to attend weekly virtual lectures and assist teaching and helping students during group activities. Outside of the course meetings I was solely responsible for interacting with students about homework assignments, quizzes, discussion boards, and grading the course assignments for 60 students.

Volleyball Coach

Greater Philadelphia Area | May 2013 – Present

Have spent many years coaching young men and women ranging in age from 10 to 18 years old on various club and youth volleyball teams. Responsibilities include development of practice plans, skill development, mentoring, teaching and instructional development for the players, and personal development.

Lehigh University | Teaching and Research Assistantship

Bethlehem, PA | Aug 2017 – June 2019

Positions held during the first and second year of my Masters program. The lab course I was assigned to teach, I had sole control over. New topics were created and managed weekly. Performed duties of setting up, cleaning, dispersing, and maintaining equipment of lab materials. Assisted students one-on-one with understanding the material and preparing them for exams and quizzes that I administered. Research conducted in conjunction with advisor exploring various volcanological topics influencing my Masters thesis as well as supplementing research being completed by my advisor.

Lafayette College | Research Assistantship

Easton, PA | May 2016 – May 2017

Research assistant to Dr. Tamara Carley, assistant professor in the Department of Geology and Environmental Geosciences at Lafayette College. Research focused on Iceland, studying glacially derived river sands to better understand information about subglacial volcanic systems which have not been previously studied. Various tools used for this project including the SEM, XRD, and other analytical techniques in the fields of petrology and mineralogy.