

**Graham Johnston**  
**Geologist, U.S. Army Corps of Engineers**  
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**Education**

M.Sc. 2016 – In progress, Indiana University, IN  
Research: Fluvial Levee Geomorphology  
B.S. 2009, Eckerd College, St. Petersburg, FL  
Major/Minor: Marine Science/Mathematics  
GPA: 3.77

**Professional Positions**

**2013-2016** Technical Manager Geologist, Savannah District, U.S. Army Corps of Engineers  
**2009-2013** Field Geologist, Savannah District, U.S. Army Corps of Engineers

**Teaching Experience**

**2015** “Water Well Installation and Management”: Presentation delivered to special operations soldiers of the 82<sup>nd</sup> Civil Affairs Battalion, Fort Stewart deploying to Liberia.

**Post Graduation Professional Work Experience**

- U.S. Army Corps of Engineers, Savannah District Savannah, GA

*Geology, Hydrogeology, & HTRW Design*

In 2013, promoted to Technical Manager for geologic exploration projects. Completed cost estimation and conducted technical oversight for drilling operations and environmental geology investigations. Managed the environmental groundwater and soil sampling program for Fort Jackson, SC. Managed the in-situ, geotechnical testing program for Savannah District.

In 2011, deployed to Afghanistan in support of Operation Enduring Freedom. Worked as a hydrogeologist for the U.S. Army Corps of Engineers while attached to the U.S. Navy Seabee 30th and 22nd Naval Construction Regiments. Supervised deep water well drilling operations, well testing, and analysis for the Naval Mobile Construction Battalions, as well as local Afghan contractors on forward operating bases and combat outposts throughout Southern and South-Western Afghanistan.

Served as a field geologist for military and civil geotechnical projects throughout the country. Civil Projects have included extensive soil classification, CPT interpretation, and vane shear testing for the New Orleans levee systems, the Herbert Hoover Dike, and the Red River Diversion Project, Fargo, ND; Supported safety and structural assessments on dams in Oklahoma, Texas, and South Carolina.

Military projects have supported several environmental and construction jobs at Fort Drum, Fort Benning, Fort Stewart, Fort Bragg, Fort McPherson, and Fort Gillem. The environmental projects consisted of well installation/development for product recovery and site remediation, and soil classification and screening with PID for contaminant levels. Work with USACE included gINT soil logging, analysis of CPT seismic data, and review of environmental reports for Fort Benning and the Marine Corps Air Station, Beaufort, SC.

**Pre-Graduation Work Experience**

- Eckerd College Geocrew in conjunction with USGS St. Petersburg, FL  
Worked in the field and the Eckerd Sediment Research Lab on several projects throughout Florida and the Virgin Islands.

- National Geodetic Survey, 2007 NOAA Hollings Scholarship St. Paul, MN  
Developed gravity survey procedures to support Minnesota Height Modernization Project. Worked with various GPS systems, GIS software, gravity data, and cone penetrometer technology.
- College Jobs: boat captain; ECSAR (Eckerd College Search & Rescue); ranch hand.

### **Field Work Experience**

- 2016: Supervised the discrete groundwater sampling investigation for explosive contamination at Fort Jackson utilizing sonic drilling technology.
- 2016: Conducted electromagnetic survey to locate buried trenches at Camp Merrill, Dahlonga, GA.
- 2016: Conducted the CPT investigation and data processing for the Langley Air Force Base Targeting Center construction project.
- 2013-2016: Supervised the groundwater monitoring program for the solid waste facility at Fort Jackson, SC.
- 2015: Conducted the CPT investigation and data processing for the Lake Okeechobee Dike rehabilitation project.
- 2014-2015: Supervised Over-water drilling operations and wireline logging in support of the Jacksonville Harbor Deepening Project.
- 2014-2015: Performed environmental sampling and data analysis for EPA Superfund Site, Southern Solvents in Tampa, FL.
- 2014: Named to select Army Environmental Support Team (ENVST) for rapid response.
- 2014: Performed electromagnetic and ground penetrating radar geophysical surveys for Savannah and Wilmington District exploration projects.
- 2014: Conducted CPT and Dilatometer testing at NASA, Langley Research Center.
- 2013: Supervised environmental sampling of Fort Gillem and Fort McPherson in support of the land transfer efforts for BRAC.
- 2013: Supervised cone penetrometer testing on 1N Island in the Savannah River. Exploration supported efforts to raise the dikes for additional spoil material from the Savannah Harbor Expansion Project (SHEP).
- 2012-2013: Supervised cone penetrometer testing on the Herbert Hoover Dike levee system around Lake Okeechobee, FL.
- 2012: Logged environmental samples in support of the Arlington National Cemetery Expansion Project.
- 2012: Operated CPT exploration rig on Clouter Creek Spoils Island in Charleston, SC for Wilmington District in support of Charleston Harbor Expansion Project.
- 2011-2012: Deployed to Afghanistan in support of Operation Enduring Freedom as a hydrogeologist.
- 2010-2011: Operated CPT exploration rig in Fargo, ND as part of the Red River Diversion Project.
- 2010-2011: Supervised injection, monitoring, and extraction well installation at Fort Drum, NY as part of the OASIS JP-8 fuel spill cleanup project.
- 2010: Performed geotechnical exploration and soil classification for dam safety investigations at Pine Creek Dam, OK, Proctor Dam, TX and Orwell Dam, MN with Vertek, track mounted cone penetrometer rig and SCAPS cone penetrometer truck rig.
- 2010: Performed Hydrogen Release Compound injections at Fort Benning, GA to clean solvent spill
- 2010: Soil sampling for the London Avenue Canal, New Orleans construction project with the MOSTAP soil sampler.
- 2009-2010: Cone penetrometer soil stability testing as part of the New Orleans levee reconstruction project.
- 2009-2010: Undisturbed soil sampling and classification as part of the New Orleans levee reconstruction project.
- 2009: SPT soil sampling and classification at Fort Bragg, NC for several military construction projects.
- 2009: SPT soil sampling and classification, classification of rock cores and piezometer installation at St. Stephen Dam, SC.
- 2008: Cone penetrometer soil stability testing with Minnesota Department of Transportation.
- 2007-2008: Eckerd College Sediment Research Lab Supervisor.
- 2007: Research cruise aboard the R/V Suncoaster out of the University of South Florida focusing on continued side scan sonar surveys as well as deep water dredging on the west Florida shelf.
- 2007: Research cruise aboard the R/V Bellows out of the University of South Florida doing side scan sonar work on the west Florida shelf.

- 2007: USGS sponsored internship with Professor Gregg Brooks at the Eckerd College Sediment Lab performing sediment analysis for numerous projects throughout the Tampa Bay region, as well as the Virgin Islands.
- 2006: TSS sampling with Jordan Sanford from USGS as part of the Tampa Bay Project east of the Sunshine Skyway Bridge.
- 2006: Surface sampling using PONAR sediment sampler as part of Tampa Bay Project.
- 2006: Vibracoring on USGS vessel “Gilbert” in Upper Tampa Bay as part of the Tampa Bay Project.

## Publications

“*Creating an Accurate Geoid*” presented at the 2009 Southeastern GSA meeting.

## Technical Skills

GIS, gINT, Mount Sopris Downhole Geophysical Probes, Win-Situ Hydro-graph Software, extensive experience with In-Situ Level Troll water level transducers, VISIO, Microsoft Word, Microsoft Excel, PowerPoint

## Honors & Awards

- Secretary of Defense Medal for the Global War on Terrorism
- Department of the Army Achievement Medal for Civilian Service
- Non-Article 5 NATO Medal for Service in an ISAF Operation
- Trainor Award for Excellence in Environmental Remediation (awarded twice)
- NOAA Hollings Scholar
- Eckerd College Dean’s List
- Eckerd College Honors Scholarship Recipient

## Certifications

- 40 Hr OSHA HAZWOPER Certification
- 8 Hr HAZWOPER Supervisor Certification
- Secret Clearance for the Department of Defense
- Contracting Officer Representative (COR)
- Advanced Scuba Diver Certification

## Relevant Courses

Earth Materials	Earth Structures	Earth Systems History
Solid Earth Geophysics	Marine Geology	Chemical/Physical Oceanography
Chemistry I/II	Physics I/II	Coastal Sedimentology
Computer Science	GIS	Calculus I/II/III
Statistics I/II	Differential Equations	Remote Sensing
Biology	Geochronological Methods	Field Techniques in Geophysics
Princeton Groundwater Pollution and Hydrology		
Electrical Resistivity, Induced Polarization & Self-Potential for Engineering and Environmental Applications		
Applications of Engineering Geology		