

# Stephen Richardson, Ph.D, P.E., P.Eng

*Principal Engineer*

## HIGHER EDUCATION

PhD, Environmental Eng, University of North Carolina, Chapel Hill, NC, 2010  
MS, Civil and Environmental Eng, Louisiana State University, Baton Rouge, LA, 2002  
BASc, Civil Environmental Eng, University of Waterloo, Waterloo, Canada, 2000

## PROFESSIONAL LICENSES

Professional Engineer  
Texas License No. 116664  
Louisiana License No. 38348  
North Carolina License No. 36355  
Alberta License No. 77284



**Email:**  
sdrichardson@gsienv.com

## BIOGRAPHICAL SUMMARY

**D**r. Richardson is a Principal Engineer with GSI Environmental Inc. and has 15 years of combined academic and consulting experience in soil and groundwater remediation, environmental site investigation, engineering design, and research and development. Dr. Richardson specializes in the application of innovative strategies and technologies to treat a variety of conventional and emerging contaminants including chlorinated solvents, per- and polyfluoroalkyl substances (PFAS), 1,4-dioxane, metals, polycyclic aromatic hydrocarbons (PAHs), and petroleum hydrocarbons in soils and groundwater. His professional experience includes site assessments of former manufactured gas plants, military bases, Superfund sites, gas stations, and oil and gas refineries; design and implementation of in-situ and ex-situ remedial technologies; treatment of non-aqueous phase liquid (NAPL) source zones; long-term monitoring optimization; stormwater assessments; performance-based remediation; and pre- and post-drill sampling program in areas of oil and gas development.

Dr. Richardson has authored or co-authored over 15 peer-reviewed journal articles on topics including dissolved methane occurrence and baseline groundwater sampling in areas of oil and gas development; in situ bioremediation of chlorinated solvent DNAPL; chemical oxidation, cosolvent flushing and bioavailability of PAHs, and decentralized wastewater treatment. He serves as a technical reviewer for several environmental journals and is a member of two Interstate Technology and Regulatory Council (ITRC) teams: i) remediation management of complex sites and ii) evaluation of innovative methane detection technologies. Dr. Richardson serves as principal investigator for several Department of Defense-sponsored research projects on cometabolic biodegradation of 1,4-dioxane, innovative approaches for treatment of chlorinated solvents in low permeability zones, and anaerobic bioremediation of DNAPL.

### PRACTICE AREAS:

- ✓ Environmental Investigation and Remediation
- ✓ Research and Development
- ✓ Emerging Contaminants
- ✓ Monitored Natural Attenuation
- ✓ Chemical Fate and Transport
- ✓ Training and Tech Transfer

### INDUSTRIES:

- ✓ Chemical
- ✓ Oil and Gas
- ✓ Manufacturing
- ✓ Government Agencies

