



EXPERTISE



Technology
R&D



Piloting &
Implementation



Commercialization

PARTNERS



COMPANY DATA

Federal Certifications:

Small Business

HUBZone

NICRA

UEI Number: X6EJJK2HHMF1

CAGE Code: 7VS92



ABOUT US

Triangle Environmental Health Initiative (TE) is a HUBZone certified small business based in North Carolina, specializing in onsite wastewater treatment, nutrient management and greywater reuse solutions.

TE collaborates with US government agencies and universities, by priming NSF and EPA SBIR grants. Our core competencies include electrochemical and membrane treatment processes, modular system integration, and circular resource solutions designed for infrastructure-limited environments. These innovations meet environmental compliance requirements—including nutrient discharge limits under the Clean Water Act—while enhancing sustainability in both domestic and commercial installations.

CONTACT



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@Tri_EHI

541715 - Research & Development in the Physical, Engineering & Life Sciences

562991 - Septic Tank & Related Services

541330 - Engineering Services

541620 - Environmental Consulting Services

221320 - Sewage Treatment Facilities

562998 - All Other, Miscellaneous Waste Management Services

Past PERFORMANCE



Coastal VA Resiliency

Reference: Sabine Rogers, sarogers@vaseagrant.org

Funding: \$200,000 (Go Virginia, Middle Peninsula Planning District)

Dates: 2022 - 2025

Description: Rising sea levels in coastal VA cause septic systems to fail. TE is running household and commercial pilot units to treat septic tank effluent to non-potable water quality.



Nutrient Removal and Recovery

Reference: April Richards (EPA), (202) 564-6462

Funding: EPA SBIR Phase I and II, \$500,000

Dates: 2020 - 2023

Description: Commercial pilot unit tested using electrodialysis for demonstrating nitrogen removal in septic tank effluent in Coastal VA.



Selective Ion Recovery System

Reference: Rajesh Mehta (NSF), sbir@nsf.gov

Funding: NSF SBIR Phase I, \$275,000

Dates: 2025

Description: Concept validation for technology to be used in processing wastewaters to separate multiple valuable ions simultaneously and recover for industries with complex wastewater.



Greywater Reuse

Reference: April Richards (EPA), (202) 564-6462

Funding: EPA SBIR Phase I and II, \$600,000

Dates: 2021 - 2024

Description: TE is running a compact, modular pilot unit at a Duke University residence hall to treat onsite greywater for reuse.

