

Air Force Civil Engineer Center



AFCEC Capabilities and Directions to Advance Innovative Remediation Technologies

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FRTR Spring 2021 Webinar and Meeting
May 26, 2021
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- What are Air Force Restoration BAAs?
 - Implement Innovative Technologies at AF Restoration Sites
 - BAA projects emphasize:
 - Testing, evaluation, demonstration and validation of promising restoration technologies that have emerged from R&D,
 - Field-scale treatability studies, pilot-scale remediation, and upscaling efforts at installations considered to be priority sites, and
 - Objectives and activities that directly support installation needs for innovation in remediation decisions and actions.
- BAA Focus Areas
 - High Resolution Site Characterization (HRSC)
 - PFAS Remediation

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- BAA Process
 - Statement of Needs (SON) DataCall—October/November
 - BAA Announcement in BetaSam (formerly FedBizOps)—Feb/Mar
 - Phase 1 Proposal and Down Select-Apr/May
 - Selected Phase 1 proposals “paired” with installations where a BAA project would benefit remediation decisions and actions
 - AFCEC/CZO and AFCEC/CZR participation in “pairing” of BAA proposals with installations
 - Phase 2 Process and Award-Jul/Aug

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- Current Statements of Need
 - Proposals to evaluate, demonstrate and validate innovative technologies for cost effective remediation of media impacted by per- and polyfluoroalkyl substances (PFAS) resulting from the use of Aqueous Film Forming Foam (AFFF) formulations. The primary PFAS-impacted media of concern to the Air Force including **groundwater**, surface water, sediments, and soils.
 - Proposals that focus on demonstration and validation of technologies for characterization of groundwater at sites with complex heterogeneous hydrogeology, specifically Site SS028 at Columbus AFB, MS.

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- **Current PFAS BAA Demonstration Projects**
 - Coupling Ion Exchange Resin with Electrochemical Treatment of Regenerant,
 - Absorbents for In-situ Stabilization of PFAS Compounds,
 - Enhanced Contact Electrical Discharge Plasma Reactor for Destruction of PFAS Compounds,
 - Destruction of PFAS Compounds in Nanofiltration Reject Water using UV Oxidative/Reductive Treatment.
- **Legacy Issues**
 - High Resolution Site Characterization (HRSC) Guidance and Demonstration,
 - Innovative DNAPL Remediation Using High-Resolution Characterization and Low Level Heat.