The National Institute of Environmental Health Sciences (NIEHS) Superfund Research Program (SRP) funds university-based multidisciplinary research on human health and environmental issues related to hazardous substances. SRP was initiated under the Superfund Amendments and Reauthorization Act of 1986. The central goal of SRP is to understand and break the link between chemical exposure and disease. Teams of diverse professionals develop, test, and implement unique, solution-oriented approaches to address complex environmental health problems. The basic and applied SRP research supports our understanding of environmental contaminants, which may lead to lower environmental cleanup costs, reduced risk of exposure, and improvements in human health. This presentation will provide a brief overview of the SRP, highlighting grantee work in developing new remediation strategies for heavy metals and radionuclides.