



Jim Kang, Ph.D., P.E., Senior Vice President and Coordinator of URS Global Environmental Technology/Practice Network, has 29 years of experience in environmental remediation field. He has directed and/or designed numerous soil/groundwater remediation projects in the U.S., Europe, and Asia Pacific using innovative technologies such as enhanced bioremediation; in situ electrical resistance heating; air sparging; soil vapor extraction; multiphase extraction (MPE); in situ chemical oxidation (using modified Fenton's reagents, permanganate, or activated persulfate); aerobic cometabolization; and monitored natural attenuation (MNA).

Dr. Kang is also well versed in various types of industrial wastewater and groundwater treatment technologies, including oil/water separation, biological treatment using membrane bioreactor (MBR), sequencing batch reactor (SBR), modified SBR, physical/chemical treatment for heavy metal removal, advanced oxidation using UV/ozone, UV/TiO₂, ultrasound/ozone, or ozone/hydrogen peroxide, and High Pressure Ozonation (HiPOx) processes. He has performed numerous industrial wastewater and groundwater treatability studies for a variety of industries. He has also started up numerous industrial wastewater treatment plants involving physical/chemical, membrane separation, and biological treatment processes.

Dr. Kang has developed several innovative treatment technologies, including a safe modified Fenton's process, an innovative ozone/hydrogen peroxide advanced oxidation process, and a ultrasound/ozone oxidation process to destruct recalcitrant compounds such as MTBE (methyl tert-butyl ether), TBA (tert-butyl alcohol), etc. He has also developed and implemented an enhanced bioremediation process using a mobile enhanced bioremediation system he co-designed to clean up a Jet A fuel/waste oil contaminated site at Logan International Airport, Boston, MA and achieved a site closure from Massachusetts DEP. He has directed a large LNAPL recovery project using MPE at Concourses A and D of JFK International Airport, Jamaica, NY and achieved a no further action from New York State Department of Environmental Conservation (NYSDEC) in three years. He is currently directing two major 1,2-dichloroethane (1,2-DCA) groundwater remediation projects in Lake Charles, Louisiana and Bahrain, the Kingdom of Bahrain.