Geoenvironmental Engineering can be described as the engineering of geologic (earthen) and geosynthetic (polymer) materials for problems related to the protection of human health and the environment. The primary problems addressed by Geoenvironmental Engineers relate to either the potential for or the existence of subsurface pollution, and focus to a great extent on issues related to waste containment for prevention of subsurface pollution and remediation or cleanup of sites that were previously polluted. This goal is achieved by first providing a brief background on the Geoenvironmental Engineering program at Colorado State University, including the research focus areas, interests, and approaches related to the presenter, followed by brief descriptions of several recent and current research projects to emphasize the extent of collaboration and interdisciplinary nature of research in Geoenvironmental Engineering. Emphasis is placed on breadth rather than depth to illustrate the range of disciplinary topics covered by the research. The research described includes projects related to the semipermeable membrane and compatibility behaviors of clay barriers used for containment of wastes, hydrologic modeling of alternative covers for waste disposal, the concept of lumping in describing subsurface migration of organic chemical mixtures, and in situ remediation technologies involving soil mixing for treatment of chlorinated hydrocarbons and sulfate reducing bacteria for remediation of acid mine drainage.