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The Stony Brook Applied Mathematics Department, and the New York Center for Computational Science (NYCCS) offer research programs in a wide variety of computational science research areas. This talk will serve to introduce a few of these, including models of spray and breakup of a jet of diesel fuel in a diesel engine, models of fueling of the ITER magnetically confined fusion reactor, design of a scram jet, and design of methods to impede flow of contaminants in ground water. (Received September 15, 2008)