In 2005, concern over the declining position of the United States in technological enterprises prompted the National Academy of Sciences and National Academy of Engineering to commission the report “Rising Above the Gathering Storm” (Committee on Prospering in the Global Economy of the 21st Century: An Agenda for American Science and Technology, 2007). In it, a teacher preparation program at the University of Texas at Austin (UTeach) was cited as one that should be scaled up across the nation to address the declining population of high school mathematics and science teachers. Cleveland State University is now one of more than 30 universities replicating this program. There are a number of interdependent features of this program that are not necessarily new or unique, but when brought together in one package, create a powerful model that has proven very successful. In 2010, we accepted our first students, in May 2012, 14 students completed the program, and all had secured teaching jobs by the end of July. In this session, I will describe the components of the new CSU Teach mathematics teacher preparation program including the focus on project-based instruction, outline some of the issues we have faced during the past two years, and look to future developments. (Received September 04, 2012)