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*Starting and Running an REU for Minorities and Women.*

The decreasing number of US citizens with advanced degrees in the mathematical sciences is a growing concern. Also of concern is the small number of advanced degrees in the sciences going to African Americans, Latinos, and women. Several Research Experience for Undergraduates (REU) programs have been developed to address these issues. In this talk we describe the design of our ongoing program, the Summer Undergraduate Mathematical Sciences Research Institute (SUMSRI) in the Department of Mathematics and Statistics at Miami University. (Received September 23, 2009)