

## ABSTRACT

Project *Numbers & Futures* is an intervention program designed to improve the computational and mathematical problem solving ability of minority high school females in order to expand the range of career options available in Science, Technology, Engineering and Math (STEM). Thirty students will be selected from Liberty Partnerships Program, an existing after-school program for students with unsatisfactory academic performance who are referred to the program by school officials. This targeted group of students are 95% Black/African American, and 75% are from single family households and are eligible for free and /or reduced price school lunches. The Liberty Partnerships Program has more than 50 sites throughout New York State.

The Center for Women in Government & Civil Society's Nontraditional Employment and Training (NET) Project and Liberty Partnerships Rising Stars Program will collaborate with the University at Albany School of Education to design and implement the model program for statewide replication. The management team will include key staff from both partners. Project *Numbers & Futures* will develop and test a model for training female math tutors to effectively engage and instruct minority high school females in a mixed gender informal after-school environment. The curriculum will include hands-on discovery and problem solving activities utilizing engaging software resources, individual and group tutoring, career explorations, internships, and access to professional role models.

The first year will serve as a pilot, with a planned replication by three additional Liberty Partnerships Program sites in the second year.

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