



Salvadori: Staten Island

Generously funded by: **The Pinkerton Foundation**

Competitive Application for FREE After-school STEM Programs

About the Salvadori Center:

Math, science, art, and design are embedded in the buildings, bridges, landmarks, and structures that surround us. The Salvadori Center uses Science, Technology, Engineering, and Math (STEM) and the built environment as a vehicle for student learning, individual creativity, and the development of 21st century skills like critical thinking, communication, and team work.

When the New York Academy of Sciences challenged educators in 1976 to improve teaching in middle schools, Salvadori's founder responded. He showed students how art, design, math, and science are part of buildings, bridges, and our local community. In 1987, the Salvadori Center was founded with three main principles:

- engage students through project-based exercises
- use the built environment as a vehicle for learning
- employ collaborative problem solving that involves all participants

Salvadori tackles STEM education uniquely. We hold true to our founding principles, using the STEM inherent in the built environment, and adding an 'A' for art/architecture to make STEAM-based residencies that:

- promote college and career readiness
- emphasize higher-order skills
- produce results that reflect high levels of creativity, collaboration, and ownership

Our hands-on approach to building projects gives students an intimate and personal experience. Working collaboratively, students learn that they don't need to have all the answers; each team member contributes to a more dynamic view. Working in small groups allows students to form hypotheses, build and test apparatus, record observations, and draw conclusions. Results are shared, discussed, and analyzed with the entire class.

Each multi-day residency includes multiple group experiments that build toward a culminating activity. Individual sessions start with a re-cap activity that reinforces the previous week's session on a higher level. This reminds students where they left off and enables those who missed the previous session to catch up. A primary experiment explores new concepts. Sessions end in a brief wrap-up activity ~ a "cliff hanger" ~ that motivates students to engage in future sessions. Students combine the design approach to problem solving with the scientific method of experimentation to explore new concepts and solve real world problems.

Salvadori programs give students what they need to succeed, promote college and career readiness, develop critical and creative thinking skills, and reflect high levels of participation and ownership.

About the FREE After-School Programs:

Through the generous support of the Pinkerton Foundation, the Salvadori Center is able to provide (2) 12-week after-school programs to (4) New York City Housing Authority (NYCHA) sites on Staten Island. As noted above, Salvadori: Staten Island programs show students the relevance of math and science through collaborative, hands-on, project-based STEM activities.

Salvadori will provide:

- (2) 12-week, 90-minute Salvadori After-School curricula
 - Typically serves one class of 20-25 students; 360-450 student impact hours per program
 - Topics covered: *Bridges* in the Fall of 2016; *Skateparks* in the Spring of 2017
 - Program value: \$27,500 per semester per site (\$55,000 per year per site)
- Salvadori Educator
- Third party independent assessment
- All materials and supplies

Selected NYCHA Sites will provide:

- Dedicated classroom (not part of a shared space such as a gymnasium or cafeteria)
- Dedicated and secure storage area (approximately 16 square feet)
- Staff contact on-site during program hours (3:00 pm to 4:30 pm)
- Site contact available for program coordination
- Ability to offer the program for (12) consecutive weeks on the same day each week
- A consistent group of 20-25 students able to participate in the full 12-week program

How to Apply:

Please submit the following for consideration by 5:00 pm on Friday, 12 August 2016:

- A statement confirming your sites ability to provide (maximum 150 words):
 - Dedicated classroom (not part of a shared space such as a gymnasium or cafeteria)
 - Dedicated and secure storage area (approximately 16 square feet)
 - Staff contact on-site during program hours (3:00 pm to 4:30 pm)
 - Site contact available for program coordination
 - Ability to offer the program for (12) consecutive weeks on the same day each week
 - A consistent group of 20-25 students able to participate in the full 12-week program
- Statement of interest and need (maximum 500 words)
 - Why should your NYCHA site be selected?
 - How would the Salvadori: Staten Island program benefit your students?
 - How would you ensure consistent student participation for the 12-week program?
- Site contact
 - NYCHA site address
 - Site contact's email and phone number (office and cell)

Submit Applications by 5:00 pm on Friday, 12 August 2016 to:

David McGillan at David@Salvadori.org

Since this is a competitive application, site participation will be reviewed after the first semester to evaluate the NYCHA site's commitment. Should the NYCHA site not maintain an acceptable level of participation, the award will be withdrawn and offered to another site.