

MTAC R1033 Professional Development, Direct Student Services, Family Enrichment, and Fairs/Expos for Elementary, Middle and High School Sciences and STEM Education

Contract Dates: 02/01/2012 - 08/31/2016

For more Information please

Call Jessica Kaplan
at (212)374-0396

Component	Vendor Name	Component Description	Contract Number
Coordination and Facilitation of Science and STEM Fairs/Expos and Student Competitions	Transforming Education in America, LLC (T.E.A.M.)	T.E.A.M offers customized hands on programs to meet school needs. Program focuses on Healthy Habits so students understand cause and effect in their decision making. Components are interconnected; From selecting theme, training educators, lessons in the classroom, parents workshops/fieldtrips, and in-house theme based STEM Science Fair. Fair can be either a School Science Fair support for creating 1 full day in-school Science Fair, District-wide Science Fair support for creating 1 full day District-wide Science Fair, or Five-day Science Fair Summer Intensive for staff & Math, Science & English teachers. 6 Healthy Habits for improved learning and science projects are included: focusing, organization, sufficient sleep, appreciation, persistence & language for teamwork.	QR033AB
Coordination and Facilitation of Science and STEM Fairs/Expos and Student Competitions	Research Foundation of City University of New York	RF of CUNY will provide the following for the New York City Science and Engineering Fair: • Coordinate and facilitate science fair of up to 1,100 participants • Locate venue, print and distribute materials and advertise • Update and maintain online registration system and website posting of event • Ensure judging guidelines and presentation are available to the public • Convene and facilitate science review committee consisting of scientists, CUNY faculty and DOE staff who reviews and approves applications and research papers • Recruit volunteer judges from area colleges, universities, research institutions and industries • Oversee two rounds of competition including Preliminary event and Final event for projects scoring in the top 25-30%	QR033AE
Direct Services to Students	Horticultural Society of New York	Apple Seed is a hands-on program that promotes science learning in elementary and middle school, based on plant science (function and anatomy), environmental science, green infrastructure, outdoor education, natural sciences, lifecycle studies, urban studies and all aspects of science content. All Apple Seed activities are based on the NYC DOE scope and sequence for teaching science and are customized to work with indoor plants, the school's outdoor garden space or nearby parks. Each package of 10 one-hour sessions includes an additional hour of planning with the teacher(s).	QC475AK
Direct Services to Students	Salvadori Center	Salvadori's professional development offerings uses a collaborative, hands-on, project-based approach to learning with a scientific approach to problem solving. Programs are offered to elementary, middle, and high schools. Sessions include multiple collaborative experiments such as a re-cap activity exploring the previous session's focus on a higher level, a primary activity, and a summative activity. While sessions are encapsulated, each builds to a culminating project where students use the knowledge gained throughout the program.	QR033AA
Direct Services to Students	Transforming Education in America, LLC (T.E.A.M.)	T.E.A.M offers customized hands on programs to meet school needs. Program focuses on Healthy Habits so students understand cause and effect in their decision making. Components are interconnected; From selecting theme, training educators, lessons in the classroom, parents workshops/fieldtrips, and in-house theme based STEM Science Fair. Programs are hands-on learning in math and science and the Scientific Method are given. It has an English component to teach students presentation skills. In addition, 6 Healthy Habits which enhance learning, including: focusing, organization, sufficient sleep, appreciation, persistence & language for teamwork, are taught.	QR033AB
Direct Services to Students	CEC/Stuyvesant Cove, Inc.	Solar One offers its Green Design Lab™ (GDL). The GDL Education program is a hands-on, interactive program that inspires students in environmental stewardship, STEM, and careers in the emerging green economy. The program uses the school building as both a laboratory for learning and a tool for environmental action to teach about energy, food, water, materials and air quality. Solar One delivers its program through direct delivery alongside classroom teachers and through professional development workshops with teachers, providing them with curriculum, standards alignment, materials, and other resources to integrate the content into their coursework. The curriculum is available in two versions: one for grades K-8 and one for grades 9-12 (CleanTech). CleanTech introduces students to the rapidly evolving clean technology industry through STEM-focused informational texts, research projects and hands-on labs.	QR033AC
Direct Services to Students	St John's University	St. John's offers a STEMulating Explorers Afterschool program is a 30-week after-school program aims to reinforce and strengthen 4th grade elementary students' understanding of STEM topics introduced in the academic process. Focus will be on four major themes identified in the curriculum. Each exploration will take the shape of a 6-7 week experience that examines one of the overarching themes through various STEM perspectives (i.e. plants and animals, water, erosion and corrosion, and energy). The instructors will integrate technology, multimedia, hands-on learning, and a variety of manipulatives into each component. Student Explorers will use inquiry-based learning strategies and will develop research strategies, discover engineering concepts, explore their own creativity and consider ways to use their technology, science and mathematics skills for problem solving.	QR033AD
Direct Services to Students	Brooklyn Botanic Garden	Workshops on 13 specific topics at BBG for preK-12 classes include hands on investigation, planting activity in the greenhouse, and exploration of BBG's plant collections.	QR475AJ

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Educator Professional Development and Capacity Building	Pond Environmental Center	Alley Pond Environmental Center's programs incorporate NYC standards from the following: Science Standard 4, The Living Environment; Science Standard 1, Analysis, Inquiry and Design; and Science Standard 2, Information Systems. All workshops provide educational concepts about various aspects of Alley Pond Park's living environment that will enrich the NYC science curriculum objective. 2 hour workshops include indoor orientation on topic, outdoor nature walk on trails, meet and pet animals and related science based activity. Topics are presented at each class's grade level. Topic related life science words are given to the teachers for their word walls.	QC4750R
Educator Professional Development and Capacity Building	AMERICAN MUSEUM OF NATURAL HISTORY	The goal of American Museum of Natural History (AMNH) is to build capacity through programs for teacher groups and administrators seeking scientific content and pedagogical knowledge. AMNH's program is designed to offer science content and pedagogical professional development in seven different formats: A) customized professional days or evenings for teachers or for administrators (Principals, Science AP, Science Coordinators); B) New York City Professional Development Days - Full Day/Half Day; C) Educators' Science Institutes - Three Day/Two Week; D) Science curriculum topic study at the Museum: Single Day Classes and Multi-Day Institutes; E) Custom Professional Development Initiatives; F) On-line courses for educators; G) Blended courses utilizing online and face-to-face resources.	QC475AI
Educator Professional Development and Capacity Building	The Horticultural Society of New York	The Horticultural Society of New York's science professional development enhances the instructional capacity of schools/ teachers to serve the diverse needs of their students in science achievement through the use of plants, gardens and gardening. Trainings are customized to address the specific needs, resources and strengths of each school, and can be provided as: a) team teaching, b) one-on-one instruction with targeted classrooms or c) as direct instruction to a group of teachers.	QC475AK
Educator Professional Development and Capacity Building	Queens Botanical Garden	Botanical Applications in the Classroom will provide teachers with an overview of the Garden via instructor led tours, topic specific self-guided garden exploration, and tours of our LEED Platinum Visitor and Administration Building. Participants will learn to engage in plant observations via a scaffolded-inquiry based method and will utilize books, online research, and various tools to come up with and answer their own questions as related to plants. Basic plant anatomy will be discussed as will mathematical applications – e.g. measurement, patterns and sequencing, fractions, etc. Plant propagation techniques will be taught via container gardening and will include gardening from seed, root, stem, and more. Participants will examine the role of math in planning for and creating gardens (including container gardens). Soil science including nutrient level, porosity, and permeability will be explored via hands-on experimentation.	QC475AL
Educator Professional Development and Capacity Building	Salvadori Center	Salvadori professional development offerings model the Danielson Framework for Teaching and link with Common Core Math Standards and New York State Standards for Math, Science, and Technology. Program teaches STEM content to improve teachers' understanding and will model best practices that will support inquiry-based and/or project based approaches. Programs are offered to elementary, middle, and high schools. Services are for those delivering math and science content including teachers, administrators, coaches, curriculum specialists. Programs can be customized to meet needs of the school and will focus on showing teachers how they can go about designing a hands-on, collaborative project that still incorporates a particular science or STEM topic.	QR033AA
Educator Professional Development and Capacity Building	Transforming Education in America, LLC (T.E.A.M.)	T.E.A.M offers customized hands on programs to meet school needs. Program focuses on Healthy Habits so students understand cause and effect in their decision making. Components are interconnected; From selecting theme, training educators, lessons in the classroom, parents workshops/fieldtrips, and in-house theme based STEM Science Fair. Programs are summer/winter intensive for staff & Math, Science & English teachers which will help prepare teachers and/or staff to get their students ready to participate in school-wide and district-wide science fairs. 6 Healthy Habits for improved learning and science projects are included: focusing, organization, sufficient sleep, appreciation, persistence & language for teamwork.	QR033AB
Educator Professional Development and Capacity Building	CEC/Stuyvesant Cove, Inc.	Solar One offers its Green Design Lab™ (GDL). GDL is a hands-on curriculum and program organized into five units – Energy, Air, Water, Materials and Food – that utilizes the school building as both a laboratory for learning and a tool for environmental change. Adaptable for grades K-12, GDL improves student environmental literacy and science, technology, engineering and math (STEM) skills, while promoting behavioral change in the direction of energy efficiency and healthier, greener urban spaces.	QR033AC
Educator Professional Development and Capacity Building	St John's University	St. John offers two professional development models (1) Intensive Small Group STEM Workshops and (2) Full Year Mentoring and STEM Workshop Series. Both options will promote inquiry- and project-based learning while introducing educators to new trends, technologies and techniques to help them enhance the classroom experience and improve student engagement with STEM subjects. Both groups will take part in hands-on workshops on STEM concepts, interdisciplinary instruction and curriculum designing at the elementary classroom level.	QR033AD

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Educator Professional Development and Capacity Building	Brooklyn Botanic Garden	Teacher Education Workshops for grade preK-12 educators are offered at Brooklyn Botanic Garden year-round. They are custom designed to help teachers integrate plant studies in their own classrooms and to use the Garden and other green spaces in their communities as learning spaces for their students. Plant studies support learning standards related to botany, biology, ecology, and environmental studies, as well as scientific thinking and methods. Cross curricular connections are drawn to help teachers of other disciplines support student learning in the sciences.	QR475AJ
Family Engagement and Enrichment Services for Parent and School Community Groups	Transforming Education in America, LLC (T.E.A.M.)	T.E.A.M offers customized hands on programs to meet school needs. Program focuses on Healthy Habits so students understand cause and effect in their decision making. Components are interconnected; From selecting theme, training educators, lessons in the classroom, parents workshops/fieldtrips, and in-house theme based STEM Science Fair. Program involves a 2 or 3 day summer/winter family engagement workshop for parents and community members to help them support students in the creation of their science projects.	QR033AB