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STEM

Southeastern Massachusetts Network

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STEM network

A Resource for Science, Technology, Engineering & Mathematics Education

The Southeast Regional PreK-16 STEM Network, one of nine regional STEM Networks in Massachusetts, is funded through the Massachusetts Department of Higher Education's STEM Pipeline Fund and administered by the CONNECT Partnership.

For additional information about the Southeastern Massachusetts STEM Network, visit www.connectsemass.org/stem or email southeaststemnetwork@connectsemass.org



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c/o CONNECT Partnership
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Envision the Future

A STEM Program for Girls Ages 11 - 13

July 20 - 24, 2015

Bridgewater State University



Envision the Future 2015

A RESIDENTIAL STEM EDUCATION PROGRAM FOR GIRLS

Envision the Future is a five-day residential science, technology, engineering and mathematics (STEM) program for girls, ages 11-13, designed to foster interest in STEM fields. The program will provide opportunities to engage in challenging STEM activities, explore career options

alongside STEM professionals, meet women role models in STEM fields, and connect with others with similar interests and aspirations. A replication component of the program will ensure school and community commitment and local sustainability of program activities.



COLLABORATORS (partial list)

- A.D. Makepeace,
- AAUW, AccuRounds,
- Aldebaran Robotics,
- Amgen Biotech Experience,
- Bridgewater State University, Bristol Community College,
- Bristol-Plymouth RVTHS, Brockton Workforce Investment Board, Cambridge Science Festival,
- Cape Light Compact, Engaging Young Minds, Essential Physics, Girl Scouts of Eastern MA, Global Learning Public Charter School, Jr. Tech, Junior Achievement, Lockheed Martin Sippican, MAPS, Markman Children's Program, MassCAN, Massasoit Community College, MassCUE, Meditech, Museum of Science, National Marine Life Center, Natural Resources Trust of Easton, North Easton Machine, Office of Congressman Joseph Kennedy, Old Colony RVTHS, Project Lead the Way, Science from Scientists, Sensata Technologies, Siemens, Stonehill College, University of Massachusetts Dartmouth, Universal Technical Institute, Ward's Science

Key Program Elements

WORKSHOPS

Three focus areas of workshop study include: **Solve It** - Biotechnology - Using DNA to solve a crime; **Create It** - Computing - Creating mobile apps and video games; and **Build It** - Engineering - Building a remotely operated vehicle.

ACTIVITIES

Presented by professional educators, business people, and community organizations, activities include: Earthview, designing balloon cars, programming robots, creating mobile apps, making DNA models, writing through the Women Heroes Writing Project, studying historical achievements of women in STEM, and developing STEM career paths.

MEET AND GREET - Inspiring the next generation of women leaders Speed networking and activities with women STEM professionals. Exploring careers with women in STEM fields.

The Replication Component

Replication teams formed by forward-thinking educators & representatives from business & the community will be responsible for:

- Selecting Participants
- Meeting with Parents
- Participating in the Program
- Replicating one or more program activities within their community
- Securing financial contributions to cover cost of attendance

Envision the Future is a project of the SE MA STEM Network. Key partners include: the American Association of University Women (AAUW), Bridgewater State University, the CONNECT Partnership and the Office of Congressman Joseph Kennedy.



Sample Daily Schedule

7:30 A.M. - 8:15 A.M.	Breakfast
8:30 A.M. - 10:00 A.M.	Workshop
10:00 A.M. - 11:15 A.M.	Workshop
11:15 A.M. - 12:00 P.M.	Workshop
12:00 P.M. - 12:40 P.M.	Lunch
1:00 P.M. - 2:30 P.M.	Workshop
2:30 P.M. - 4:00 P.M.	STEM Activity
4:00 P.M. - 5:00 P.M.	Dorm/Free Time
5:00 P.M. - 6:00 P.M.	Dinner
6:00 P.M. - 8:30 P.M.	Evening Activities
8:30 P.M. - 9:30 P.M.	Reflection
10:00 P.M.	Lights Out

Eligible Communities

The program is open to communities in the Southeastern Massachusetts STEM Network region with five openings for Massachusetts communities outside the Network's region.

Contact Us: For additional information contact STEM Coordinator Katherine Honey, khoney@comcast.net