



RUTGERS



Develop your skills and education practice in Science Engineering Technology and Mathematics (STEM).

4-H STEM Volunteer Training

Join Us!

Rutgers Cooperative Extension 4-H Youth Development Program is proud to offer an engaging, inquiry based, and fun STEM training program designed specifically for those interested in working with youth (grades 1st - 8th) in out of school environments.

Training courses include:

Exercise Science: Exercise science is the study of the science of the human movement. In this session we will learn how to help kids live healthier lives through exercise, rehabilitation, and nutrition.

Computer Science: In this session we will nurture problem-solving skills, logic and creativity using a combination of on- and off-line computer games and exciting tools like Finch robots and Makey-Makey. Help kids build a foundation for success in 21st-century careers. *Note: This track requires additional purchase of materials.*

LEGO®Robotics: In this session we will learn the construction and programming needed to complete a robotics challenge. Find out what opportunities are available to better enable you to prepare youth for STEM careers. *Note: This track requires you to own (or purchase prior to the first session) a LEGO® NXT or EV3 Robotics kit.*

Outdoor Spaces: Is *nature deficit disorder* damaging America's children? In this session we will explore simple teaching techniques to help bring meaningful outdoor experiences to young people.



Learn how to engage kids in outdoor spaces.

Training Dates

Part 1- October 1, 2015
Part 2- January 15, 2016
Part 3- April 5, 2016

@ Rutgers University Cook
Campus Center, Biel Road, New
Brunswick, NJ

** You need to attend all three dates to complete the training. **

Part 1	Part 2	Part 3
October 1, 2015	January 15, 2016	April 5, 2016
8:30 am: Check in	8:30 am: Check in	8:30 am: Check in
9:15 am: Plenary Session I Welcome, goals & objectives, expected outcomes of the program, STEM speaker	9:15 am: Plenary Session III Welcome, report out from STEM volunteers on teaching experiences, STEM speaker	9:15 am: Plenary Session V Welcome, report out from STEM volunteers on teaching experiences, STEM speaker
10:15 am: Concurrent Sessions Workshop I: A. LEGO®Robotics B. Computer Science C. Outdoor Spaces D. Exercise Science	10:15 am: Concurrent sessions Workshop III: A. LEGO®Robotics B. Computer Science C. Outdoor Spaces D. Exercise Science	10:15 am: Concurrent sessions Workshop V: A. LEGO®Robotics B. Computer Science C. Outdoor Spaces D. Exercise Science
12:00 pm: Lunch Building a learning community	12:00 pm: Lunch Building a learning community	12:00 pm: Lunch Building a learning community
12:45 pm: Concurrent Sessions Workshop II A. LEGO®Robotics B. Computer Science C. Outdoor Spaces D. Exercise Science	12:45 pm: Concurrent Sessions Workshop IV A. LEGO®Robotics B. Computer Science C. Outdoor Spaces D. Exercise Science	12:45 pm: Concurrent Sessions Workshop VI A. LEGO®Robotics B. Computer Science C. Outdoor Spaces D. Exercise Science
3:00 pm: Break	3:00 pm: Break	3:00 pm: Break
3:30 pm: Plenary Session II: STEM speaker and wrap up	3:30 pm: Plenary Session IV: STEM speaker and wrap up	3:30 pm: Plenary Session VI: STEM speaker and wrap up



Features of our program

- Activity/inquiry-based program that stresses critical thinking
- Focuses on computer science, robotics, exercise physiology, and environmental science content areas
- Combines content with up-to-date pedagogy

As a 4-H STEM Volunteer your contributions will be to help young people:

- Explore their interest in STEM
- See the relevance of science in their everyday life
- Increase their understanding of scientific principles and concepts

You will be a role model and mentor in STEM for young people!

Register Today

Cost is \$300 for all three sessions

Cost discount for 4-H volunteers \$225

Deadline for registration is September 23, 2015. Please register online at:

https://rutgers.qualtrics.com/SE/?SID=SV_0w90kUTKxZzxIAB

Contact for more information: Janice McDonnell,
mcdonnel@marine.rutgers.edu



Register today for this exciting opportunity!