Battelle
Event made possible with a grant from Battelle and support from these local organizations.

Cecil County Public Library
Cecil College
Northrop Grumman
University of Delaware
NorthBay
AIAA
DSA

Girls in STEM
Discover. Empower. Achieve!

3rd Annual
Don’t Miss Out - SIGN UP NOW!
A one-day event for girls in grades 6-8.

Saturday
September 28, 2019
9:00 AM - 4:00 PM

Event Location:
Cecil College < One Seahawk Drive > North East MD

Cecil County Public Schools
201 Booth Street
Elkton, MD
(410) 996-5496
What is Girls in STEM?

Cecil County Public Schools, in conjunction with all the sponsors in this brochure, is excited to offer this great opportunity for girls in grades 6 through 8 to attend a day designed for girls interested in STEM. Take a moment from your busy schedule to experience new ideas and have fun in an atmosphere of creativity and community building.

Girls in STEM is designed to inspire, educate, and attract girls to pursue Science, Technology, Engineering, and Math (STEM) careers. This day will provide opportunities for participation in hands-on STEM activities from a diverse spectrum of STEM organizations.

All sessions will be presented in a fun and interactive way that will spark interest among the girls in pursuing a career in the sciences.

Hands-On Activities!
Free Lunch!
Meet Career Professionals!
T-Shirts for all the girls!
Free Ice Cream!
All at NO COST to you!

Student Drop Off / Pick Up at Cecil College
in front of the Milburn Stone Theatre

DROP OFF: 8:30 a.m.
PICK UP: 4:00 p.m.

DON'T MISS OUT!

1. Choose your 4 sessions!
2. Go to the website below or scan the Q-reader with your phone!
3. Sign Up!

https://sites.google.com/ccps.org/ccps-girls-in-stem-event-2019/home

Remember: Event is limited to 150 girls. Each workshop is limited to 13 girls.

We cannot save seats. If you want to be in a session with your friend, get them to sign up when you do!

Be sure to wear lab appropriate attire such as closed-toe shoes and pants.

Due to safety and space limitations, this event is for the registrants ONLY.

Registration will close September 20.

If you have problems with the site, please contact Ginny Quinn at gquinn@ccps.org or (410) 996-5496.
SESSION OPTIONS

**Reactive Chemistry**  
Battelle

From bubbles to colors and from too hot to too cold! Students can join the Battelle Chemistry group and explode into chemical reactions!

**Robot Olympics**  
Cecil County Public Library

Can your team take home the gold? Use coding and creative problem-solving to complete a series of challenges with Sphero Robots, Ozobots, and flying drones.

**Survivor: Butterfly Edition**  
U.S. Army Research Laboratory

How does natural selection work? Take the role of a predator and see how natural selection can affect the color of a population of butterflies.

**Virtual Reality Exploration**  
Cecil County Public Library

Enter a virtual world with Oculus VR and discover the endless possibilities of a virtual reality.

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**Tentative Agenda for the Day**

**8:30—9:00**  
Arrive, Check-In, Team Building Activity

**9:00—9:20**  
Welcoming Remarks, Room 208

*Dr. Mary Way Bolt*  
President  
Cecil College

*Dr. Carolyn Teigland*  
Associate Superintendent Education Services  
Cecil County Public Schools

**LET'S GET STARTED!!**

**9:35—10:25**  
First Session

**10:40—11:30**  
Second Session

**11:35—12:30**  
LUNCH & Mingle with Mentors

**12:45—1:35**  
Third Session

**1:50—2:40**  
Fourth Session

**2:45—4:00**  
Panel Discussion with Women in STEM, Ice Cream, & Wrap-Up

**Be sure to complete your survey at the end of the event.**

**We value your opinion!**
SESSION OPTIONS

**3. 2. 1...Blast Off!**
Northrop Grumman/AIAA

Learn how a rocket flies and how to determine its peak height using some household items – and math. Then test it out and watch the rocket soar!

**Bubble Science: Discover the Wonderous World of Bubbles!**
Cecil College

Bubbles are magnificent, colorful spheres of perfection. Bubbles of all kinds will be created and studied to explore the forces holding them together and the spectra of their amazing colors. Everyone will design and build their own huge bubble wand to take home!

**Building an Input Device**
U.S. Army Research Laboratory / Aberdeen Proving Ground

Four things common to all computers: input, storage, processing, and output. These four things are what makes a computer a computer. In this session, we discuss types of input devices and each student will have the opportunity to create their own input device, limited by only their imagination.

**Can You Land on the Moon?**
W. L. Gore

Landing on the moon 50 years ago was tricky. Design and build your own lunar lander to help two 'astronauts' safely land on the moon! Learn all about the forces that astronauts face during lunar missions.

**Game Design with Kodu**
Data Systems Analysts, Inc. (DSA)

Use Kodu, free software from Microsoft, to step into the world of video game design! Students are introduced to a game creation environment that uses visual programming language. Explore basic navigation, customize a landscape, and learn programming skills to create your very own maze game!

**Health Screening 101**
Battelle

Ever wonder what all those tests at the doctor’s office were for? Explore how tests, such as blood typing and glucose, are performed and the impact of their results on human health.

**Marine Plastics Pollution**
NorthBay Adventure

Explore the problem of plastics in our marine environments and learn how careers in industrial design can offer solutions.

**Orthopaedics In Action**
University of Delaware

Orthopaedics In Action will involve hands-on problem solving of real-world biomedical engineering challenges. Specifically, we’ll run exercises to diagnose a leg fracture and recommend treatment for spinal deformity.