

## THE EVERY GIRL CAN LEARNING INSTITUTE, INC., PRESENTS

### *Savvy STEM Girl - Mini Summer Camp*

For Girls in 5<sup>th</sup> to 8<sup>th</sup> Grade

Discovery and Exploration in Science, Cybersecurity, Engineering, Cryptography and Mathematics

**Cost: \$20.00 per child.** Registration details below

Please bring a brown bag lunch. We will provide snacks & beverages.



*Enriching Girls With Life Skills to Soar and Thrive*

**Saturday, July 29, 2017, 9:00 AM to 3:00 PM**

**The Siena School** 1300 Forest Glen Rd., Silver Spring, MD 20901 (Near Holy Cross Hospital)

**REGISTRATION:** [everygirlcanlearn\\_savvystemgirlcamp2017.eventbrite.com](http://everygirlcanlearn_savvystemgirlcamp2017.eventbrite.com)

[www.EveryGirlCanLearn.org](http://www.EveryGirlCanLearn.org) - [Yasmin@everygirlcanlearn.org](mailto:Yasmin@everygirlcanlearn.org) - 301-200-2514



**Five mini workshops to help girls be more savvy, smart and confident as they explore Applications in Science, Technology, Engineering and Mathematics**

#### **1. Every Girl Can be a Scientist. Exploration in Epidemiology:** *Shakira Nelson, Ph.D., Cancer Prevention Fellow, National Cancer Institute, National Institutes of Health*

*National Cancer Institute, National Institutes of Health*

Exploration, discussion and a hands-on lab activity to uncover the science of epidemiology and how to solve problems related to food borne illness. Use calculations, to find the cause in a real-world scenario that takes place at a picnic.

#### **2. Breaking the Code. An Introduction to Encryption & Encoding:** *Valerie N. Nelson, Ph.D., Mathematician, United States, Department of Defense*

*United States, Department of Defense*

Explore the need for encryption and encoding in our world today. You will be introduced to basic encryption algorithms and enjoy interactive activities designed to help you figure how to "break" the codes behind secret writing and hidden messages.

#### **3. Yes! You Can Be an Engineer:** *Kelsey Fields, Rising Junior, Material Science & Engineering, Northwestern University*

Learn about the field of engineering, how to prepare for college and what subjects you will study. Ask questions about what it takes to be successful in college, the field of material science, and career possibilities to consider.

#### **4. Cybersecurity 101:** *Amelia Estwick, PhD, Program Manager, National Cybersecurity Institute*

An introduction to cybersecurity. Why it's important, safety, best practices and career opportunities. Participate in a demonstration of a few techniques to explain innovative approaches to cybersecurity.

#### **5. Tasty DNA: Strawberries have Genes, Too:** *Alexandra Dace Dinito, PhD, Scientist, Rockville Science Center.*

This is a short lab experiment on how to extract DNA from strawberries. Through hands-on participation and discussion, girls will learn how to get DNA from strawberries using common household products and small equipment.

**The Every Girl Can™ Learning Institute, Inc. (EGCLI)** is a 501 ( C ) ( 3 ) not-for-profit organization based in Silver Spring, Maryland, USA.

EGCLI is committed to enriching the lives of girls to soar and thrive in school, career and community. Please visit us online at

[www.EveryGirlCanLearn.org](http://www.EveryGirlCanLearn.org); like our Facebook page at [www.facebook.com/EveryGirlCanLearn/](https://www.facebook.com/EveryGirlCanLearn/); Follow us on Twitter: @GirlsSoaring