

# 2020

## SUMMER REGIONAL GOVERNOR'S SCHOOL IMAGINE · CREATE · LEAD



**MSiC**  
MathScience  
Innovation Center  
*Imagine. Create. Lead.*

June 22—30, & July 1, 2020  
8:30 am - 3:00 pm

### Classes for students currently in the 6<sup>th</sup> & 7<sup>th</sup> grades



#### **CSI: Student Academy**

In order to solve crimes, it takes the efforts of many individuals. Experience the different roles of crime scene investigators, detectives and forensic scientists and examine how the teamwork of these individuals can exonerate the innocent and convict the guilty. Become a crime scene Investigator and search a simulated crime scene to collect evidence using authentic evidence collection procedures. Learn about techniques used by forensic specialists in a lab setting such as obtaining and examining latent prints, using serology, DNA and drug analysis and more to determine "who dunnit". Field trips and guest speakers will enhance this fascinating experience.



#### **Prototyping Nature's Design**

The fields of medicine and engineering are converging in a battle against the ravages of age, disease, and physical trauma. Join us as we explore concepts and techniques in biomechanics, biomedical engineering, and computer modeling. Become a biomedical engineer as you design, build, & test prosthetic devices using rapid prototyping technology such as 3-D printing. Come discover how new advances in tissue and body "replacement" may affect the quality of your life in the future.



#### **The Next Giant Leap**

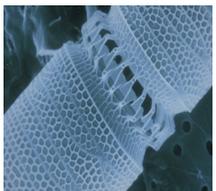
Imagine the year is 2030. You are part of a team preparing for the first manned expedition to Mars. Mars promises to be a rich destination for scientific discovery and human exploration. As a vital team member, you will receive rigorous training in advanced imaging and robotics to help you plot the course for your crew of astronauts. As geologists, your team will be using innovative techniques to analyze rock samples. Could the analysis reveal evidence of life beyond Earth? What will the first human settlement on the red planet look like? Engineers and biologists on your team will need to design habitats that can withstand the ravages of deep space. A mission in the Challenger Center simulator will test your training. Are you ready to take the next giant leap in space exploration?

### Classes for students currently in the 7<sup>th</sup> & 8<sup>th</sup> grades



#### **A River Runs Through It**

Flowing through Virginia from the mountains of the Blue Ridge to the salt marshes of the Chesapeake Bay, the James River tells a special story about the people, farms, towns, and cities that line its banks. To begin the story, you'll need to put on your wet boots and hop on a research vessel. Through a variety of lab experiments and outdoor field studies on and around the water, you will use probe ware and other field tools to conduct water quality and aquatic habitat research. Be an eco-innovator and see how innovative technologies are being used to maintain health and restore damaged river ecosystems.



#### **I Am Nano**

Get the real scoop on nanobites and nanobots. Explore what's hot and what's really not nano in our world today. From the tiniest scale, learn how geckos climb and why mood rings really work. Find out how gold nanoparticles play a role in cancer medicine. Take a trip to a tissue engineering lab and watch how humans use biomimicry to recreate a silk worm's thread. Check out your skills as a nanotechnologist as you filter gold nanoparticles, build liquid crystal thermo sensors, and spin "nanofibers". Discover why nanoscience is the hot topic in today's science world!

# Summer Regional Governor's School Program Details

The Virginia Department of Education (VDOE) and the MathScience Innovation Center (MSiC) support this special program for students currently in grades 6 - 8 who are identified as gifted by their school divisions. The VDOE defines gifted students as those students who demonstrate high levels of accomplishment, or who show the potential for higher levels of accomplishment when compared to others of the same age, experience, or environment.

Students designated as gifted from the following school divisions are eligible to apply: The counties of Charles City, Chesterfield, Dinwiddie, Goochland, Hanover, Henrico, New Kent, Powhatan, Prince George & the cities of Colonial Heights, Hopewell, Petersburg, & Richmond.

**Dates:** June 22 - 26, 29, 30 & July 1, 2020  
*Please check calendars carefully and save the dates. Students are expected to attend each day.*

**Time:** 8:30 am - 3:00 pm

**Location:** MathScience Innovation Center, 2401 Hartman Street, Richmond, VA 23223.

**Lunch:** Students must bring a lunch, snack, & drink each day.

## How To Apply

- Application packets are available through your school's gifted program teacher or guidance department. The application packet consists of teacher recommendations and a written essay.
- You may also download the packet from the MSiC web site: [www.mysic.org](http://www.mysic.org) Note that this program is for students identified as gifted by their school divisions.
- Return the completed application packet to the gifted program teacher or guidance counselor in your school by **February 19, 2020 or by the date set by your school**. Do not send applications to the MathScience Innovation Center.
- Each school will send completed applications to the Coordinator of Gifted Education for your school division and students will be selected through a ranking system.
- Applicants chosen to participate will be forwarded to the MathScience Innovation Center.
- Acceptance into Summer Regional Governor's School will be confirmed by the MSiC through e-mail or US mail by **April 16, 2020**.
- Accepted participants will receive an email containing specific instructions for completing the application process.
- For additional information contact:

Mrs. Debbie Mitchell: Phone (804) 343-6525, Ext 80243, Email: [dmitchell@mysic.org](mailto:dmitchell@mysic.org)

Mr. Christian Stiff: Phone (414) 704-9927 ; Email: [cstiff@mysic.org](mailto:cstiff@mysic.org)

## Division Contacts

### Charles City

Ms. Wendy Cauley  
804-652-4651

### Goochland

Ms. Raye Rector  
804-556-5607

### New Kent

Mr. Ross Miller  
804-966-9650

### Richmond

Ms. Lynn Plevich  
804-780-7805

### Chesterfield

Mr. George Fohl  
804-639-8620

### Hanover

Ms. Connie Forman  
804-365-4554

### Petersburg

Dr. Ann Nkiruka Ifekwunigwe  
804-732-0510

### Colonial Heights

Mr. Joseph Douglas  
804-524-3400 x 13

### Henrico

Ms. Chandra Floyd  
804-652-3765

### Powhatan

Ms. Patty Haskins  
804-598-5782 x 127

### Dinwiddie

Dr. Yardley Farquharson  
804-469-4190

### Hopewell

Ms. Jan Butterworth  
804-541-6400

### Prince George

Mr. Willie Elliot  
804-733-2700

