



# THE GOVERNOR'S SCHOOL for SCIENCE AND TECHNOLOGY

## 2025 Graduating Class Profile

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### ***Community***

The Governor's School for Science and Technology (GSST) serves the approximately 490,000 residents of the Virginia peninsula, reaching from the Chesapeake Bay to the historic Williamsburg area. The region is home to NASA Langley Research Center, Thomas Jefferson National Accelerator Facility, Northrop Grumman Newport News, Canon Virginia, Huntington Ingalls Newport News Shipyard, Veterans Administration Medical Center, Hampton University, The College of William and Mary, Christopher Newport University, Virginia Institute of Marine Science, and installations of all branches of the United States Military.

### ***High School***

GSST was founded in 1985 and is one of nineteen Governor's Schools in Virginia that serve as regional magnet programs for gifted high school students. GSST provides high-achieving students with a community of peers taking advanced courses in math, science, and technology, along with a rigorous grounding in research methodology. Students are drawn from nineteen high schools in seven school divisions (Hampton, Newport News, Poquoson, Williamsburg-James City County, York County, Gloucester County, and Isle of Wight County) and spend approximately half of their school day (3.25 hours) at the GSST. In addition to rigorous, college-level course work, seniors conduct an Honors Research/Mentorship project outside school hours. Students completing the program earn a Virginia Governor's Seal.

### ***Faculty***

The rigor of the GSST program rests on the exceptionally strong math and science backgrounds of its thirteen faculty members. All hold degrees in mathematics, science, or computer science; six hold masters degrees and six hold doctorate degrees.

### ***Curriculum***

All courses are taught at a college level and many are accredited as dual enrollment courses by local colleges. Curricula promote active scientific learning through extensive laboratory investigations which incorporate advanced scientific technologies. Communication skills are developed through multimedia presentations to peers and professionals.

### ***Admissions***

The admissions process is a competitive one based on mathematics and science achievement, teacher recommendations, and standardized test scores.

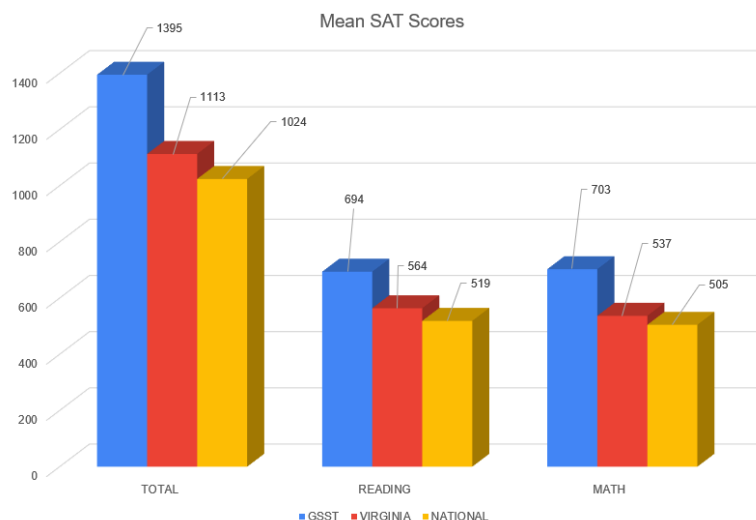


The Governor's School at New Horizons is a current and a founding member of the *National Consortium of Secondary STEM Schools*

# 2025 Graduating Class Profile

85 Seniors

## SAT Score Comparisons



*This reflects both Virginia and National averages in 2024 compared with 2025 results of GSST seniors. Due to students being able to opt out of the SAT, this data reflects 95% of senior test score data.*

## Colleges Being Attended by Class of 2025

BARNARD COLLEGE	1	UNITED STATES NAVAL ACADEMY	1
COLLEGE OF WILLIAM & MARY	6	UNIVERSITY OF CALIFORNIA BERKLEY	1
CORNELL UNIVERSITY	1	UNIVERSITY OF CALIFORNIA SAN DIEGO	1
CASE WESTERN RESERVE UNIVERSITY	1	UNIVERSITY OF VIRGINIA	25
GEORGIA INSTITUTE OF TECHNOLOGY	3	VIRGINIA COMMONWEALTH UNIVERSITY	6
JOHNS HOPKINS UNIVERSITY	2	VIRGINIA POLYTECHNIC INSTITUTE & STATE UNIVERSITY	18
LIBERTY UNIVERSITY	1	VIRGINIA PENINSULA COMMUNITY COLLEGE	1
OLD DOMINION UNIVERSITY	3	WASHINGTON & LEE UNIVERSITY	2
PRINCETON UNIVERSITY	2		
PURDUE UNIVERSITY	2		
RANDOLPH MACON COLLEGE	2		
RENSSELAER POLYTECHNIC INSTITUTE	2		
ROCHESTER INSTITUTE OF TECHNOLOGY	1		
ST. LOUIS UNIVERSITY	1		
UNITED STATES MILITARY ACADEMY	1		

**2024—2025 Scholarship  
Awards Offered: \$3,982,039**

# Program of Study

## *\*College-level Course Offerings*

### **\*Science Courses:**

Advanced Chemical Analysis  
Advanced Biological Analysis  
Calculus-based Physics I & II  
Computational Physics  
Computer Programming

### **\*Mathematics Courses:**

College Modern Pre-calculus  
College Calculus  
Multivariable Calculus  
Linear Algebra  
Differential Equations

### **\*Research Courses**

Research Methods & Ethics with Statistical Analysis  
Honors Research with Data Science and Mentorship

*\*Courses and faculty are approved for dual enrollment through the Virginia Community College System.*

## Honors Research and Mentorship Program

### ***Program***

### ***Description***

A primary goal of the GSST is to provide students with an opportunity to conduct serious scientific research. All students take a junior year course in Research Methodology and Ethics, which introduces research methodology, statistics, critical thinking skills, and skills of scientific writing and presentation. In their senior year, students design and conduct a year-long research project under the direction of a scientific, engineering, medical or other professional in the community. The field component is supported by formal course work which guides students through the entire process, from the selection of a problem to the final presentation. In addition to their outside mentor, each student is assigned a faculty advisor to assist and evaluate mentorship research.

### ***The Project***

Major aspects of the mentorship experience include preparation of a formal written proposal for their project, oral presentation of proposal and status report at mid year to GSST faculty, final research document, and presentation of final results to a panel of professionals in appropriate fields at the GSST Spring Research Symposium. In addition, many students present their findings at local, regional, and national science competitions and symposia. Exceptional work has been published in professional journals.

### ***Research Sites***

Research sites that have participated in the GSST Honors Research/Mentorship program include NASA Langley Research Center, Thomas Jefferson National Acceleration Facility, Virginia Institute of Marine Science, MITRE Corporation, College of William and Mary, Virginia Tech Extension Center, Hampton University, Christopher Newport University, Virginia Living Museum, local engineering firms, hospitals, and a variety of individual medical and professional firms.



In addition to its rigorous academic offerings, GSST students participated in a number of extracurricular activities and competitions with many earning regional and national recognition:

- International Science & Engineering Fair in Los Angeles, California
- Tidewater Science & Engineering Fair at Old Dominion University
- Virginia Junior Science & Humanities Symposium at James Madison University
- Great Computer Challenge at Old Dominion University
- VCU High School Programming Challenge at Virginia Commonwealth University
- Math Contest at Christopher Newport University
- USA Biology Olympiad Open Exam

#### NCSSS Innovative Partnerships Award

The Governor's School for Science & Technology has won the National Consortium of Secondary STEM Schools (NCSSS) Innovative Partnerships Award, receiving recognition for two groundbreaking collaborations. First, our partnership with the College of William and Mary for the AIRduino Atmospheric Aerosol Monitoring project and our partnership with Virginia Tech's Computational Modeling and Data Analytics (CMDA) department to bring Data Science to our high school students.

## Contact Information



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