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TENNESSEE DEPARTMENT OF EDUCATION

### Faculty

Dr. Anant P. Godbole, Director  
Ms. Angela T. Haga, Assistant Director

### Primary Instructors

Dr. Karl Joplin  
Dr. Nicole Lewis  
Dr. Hugh Miller

### Counselors

Kyle Copenhaver, Lead  
Virginia R. Holley  
Keifer D. Parker  
Shelbi L. Releford

### Additional Faculty

Dr. Gary Henson  
Dr. Thomas J. Jones  
Dr. Mitchell Robinson  
Mr. Travis Watson

### Field Trip Leaders/Hosts

**Mary Jane Greene** - Aerojet Rocketdyne  
**Bob Culler** - Bays Mtn. Park & Planetarium  
**Amanda Boone** – Eastman Chemical Company  
**Mitch Robinson**– Quillen College of Medicine  
**Maegan Beale**—Gray Fossil Site & Museum  
**Jennifer Bauer** – Pisgah National Forest/Roan Mountain  
**Mr. Jon Carley/Robin K. Pritchard**– Snap-On Tools  
**Counselors**- Carter Family Fold & Music Museum

### **Sponsored by:**

#### **The Center of Excellence in Mathematics and Science Education**

East Tennessee State University

P.O. Box 70301

Warf-Pickel Hall Room #509

Johnson City, Tennessee 37614

<http://www.etsu.edu/cas/math/mathexcellence/default.aspx>

<http://www.etsu.edu/cas/math/mathexcellence/govschool/default.php>

<http://www.netstemhub.com/>



EAST TENNESSEE STATE  
UNIVERSITY

## Governor's School in Integration of Biological & Statistical Sciences



### Opening Ceremony Presentation

**East Tennessee State University**

Warf-Pickel Hall - Room 315

1:00pm– 2:30pm

Sunday, May 26th, 2019



#### **Program Funded by:**

**The Tennessee Department of Education Division  
of Special Programs**



### 2019 Attending Scholars

- |                              |                               |
|------------------------------|-------------------------------|
| 1. Telak Hetal Brahmhatt     | 16. Erin Michelle Rath        |
| 2. Nithya Srikari Chilukuri  | 17. Madeline Grace Reagan     |
| 3. Nina Ginfung Choong       | 18. Audrey Lauren Richards    |
| 4. Shilpa Chowbey            | 19. Lauren McNally Russell    |
| 5. John David Clapp          | 20. Nilabh Saksena            |
| 6. Amber Cui                 | 21. Ambalavanan Saravanakumar |
| 7. Arnab Eshan Dey           | 22. Samuel Harley Sefers      |
| 8. Chandler Jackson Ford     | 23. Anna Olsen Sherwood       |
| 9. Charles North Hopper      | 24. Phoebe Leigh Stewart      |
| 10. Alexander Ray Huang      | 25. Taylor Mackenzie Swann    |
| 11. Jacqueline Ka-Yee Lee    | 26. Reagan Lane Traylor       |
| 12. Aiden Elaine Longley     | 27. Mae Louise Wallace        |
| 13. Laura Elizabeth Millsaps | 28. Emily Claire Welsh        |
| 14. Neleah Emilia Nugent     | 29. Raymond Phillip Wymierski |
| 15. Parth Nishanikumar Patel | 30. Anna Rachelle Yates       |

**We want to say a Special Thanks to:** The Tennessee Department of Education— Division of Special programs, ETSU, Snap-On Tools, ETSU Quillen College of Medicine, The Gray Fossil Site & Museum, Eastman Chemical Company, Historic Jonesborough, Roan Mountain State Park, Pisgah National Forest, Aerojet/Rocketdyne, Bays Mountain Park & Planetarium, The Carter Family Fold and Museum, Sodexo, and the Centre at Millennium Park.

## SCHEDULE OF EVENTS

**Opening Comments**.....Dr. Anant P. Godbole, Director

**Introduction of Instructors**.....Dr. Karl Joplin, Dr. Nicole Lewis & Dr. Hugh Miller

**Governor’s School Counselors**.....Kyle Copenhaver, Shelbi Releford Virginia Holley & Keifer Parker

This Governor’s School program provides challenging and intensive learning experiences in the Integration of Biological & Statistical Sciences discipline for gifted and talented high school students.

Dr. Anant Godbole and Ms. Angela Haga have worked hard to create a learning community, putting students together with each other as well as with the staff and GS Integration of Biological & Statistical Sciences faculty in informal settings such as project group meetings, study time, activities with counselors, and educational field trips.

The food services provider, **SODEXHO** will be responsible for preparing meals while scholars are on campus (breakfast, lunch, dinner). The opening and closing banquets also contribute a sense of formality and accomplishment to this program; Scholars will have the opportunity to speak at the closing banquet which will be held at the Millennium Centre Ballroom here in Johnson City.

There are two (2) academic courses offered, one at 9:00am-11:45am and one in the afternoon 1:00-4:00pm. The curriculum is designed to expose the Scholars to a rich selection of mathematics and science courses consisting of general biology, symbiosis, and probability and statistics.

Students will have the opportunity to be engaged in a variety of research projects. The projects will be centered around the following topics: 1. [Effects of Music on the Ability to Concentrate](#), 2. [Vitamin K2 & D3 Affect on Cell Proliferation & Cell Size in U937 Lymphoma Cells](#), 3. [Coincidences and the Birthday Problem](#), 4. [Capture Recapture & Related Methods](#), 5. [Microbiome of Stream Samples](#), 6. [Differential Gene Expression in the Diapause Life Stage](#).