



**Application for the**  
**2017 Tennessee Governor's School**  
**for**  
***Scientific Models and Data Analysis***  
***at***  
***East Tennessee State University***

## General Information

The Tennessee Governor's Schools offer selected gifted and talented high school students intensive learning experiences on postsecondary campuses. Students in the tenth and eleventh grades who would like to participate in a challenging and high-intensity program in one of the twelve areas should obtain application(s) from their school counselor. Each school system is encouraged to share the Governor's School information and applications with strong students who meet the criteria listed below. Nominations for the Tennessee Governor's Schools must be made by high school counselors or principals. Each Governor's School convenes a review/selection committee which will select the students invited to attend each school.

### **Submitting the Application:**

Completed applications should be mailed by the school counselor to the respective Governor's School(s). Applications submitted directly by students will not be accepted. The student may keep a copy of the application, excluding the confidential teacher's reference forms and the confidential school counselor's recommendation form; the school counselor should keep one complete copy of the submitted application package.

### Application Submission Instructions

1. Ensure applications are complete, arranged in the correct order, and contain all required signatures and documents as outlined below.
2. School counselors must submit applications with a postmark no later than the deadline(s) listed on page two of each application.
3. Each Governor's School has specific essay and writing sample questions. All questions must be answered and submitted with the application packet.
4. Class rank, class size, numerical test scores, etc., must be provided by the counselor, if available. Please note that while PSAT, SAT, and ACT scores are not mandatory, school counselors are strongly encouraged to include this information if available.
5. Students are to list two teachers (see school-specific list) to complete the confidential teacher reference forms. The school counselor will need to obtain the completed forms from the respective teachers. There is a space available at the bottom of the teacher reference form to put the name of the school counselor to whom the form is to be returned.
6. An official transcript must be included in the application packet.

Additional guidance on completing the required forms can be found on page 2 of the application packet, "Application Checklist."

**Governor's School for Scientific Models and Data Analysis**  
**East Tennessee State University**  
**May 28 - June 30, 2017**

The School for Scientific Models and Data Analysis is a five-week program that will broaden a student's appreciation and knowledge by exposing him or her to a wide range of topics in the biological and statistical sciences, and to scientists who are active researchers in these areas. Model building and data analysis will play a critical role in the school curriculum. Career exploration and choice are woven throughout the program, as are cognate activities such as Science, Technology, Engineering and Mathematics (STEM)-focused field trips. Students will additionally be introduced to practical scientific methodology and data analysis via student directed research projects. Thus, the Governor's School for Scientific Models and Data Analysis at ETSU will provide a series of courses, laboratories, projects, field trips, seminars, lectures and other activities centered on statistics and biology.

**Courses:** Students will take Math 1530, Probability and Statistics, and will earn three (3) college semester credit hours. Students will also take Biology 1110/1111, Biology for Majors I, and will earn four (4) semester credit hours. The activities at the school will cover the approved syllabi for these courses, while extending the scholars' intellect in directions not possible during a regular school year. The ubiquity of mathematical modeling, data analysis and the need for high-level computation will become more evident in the morning sessions, when the statistics class will be based on data and simulations that arise from a scientific, often biological, context. In the afternoon, biological concepts, will be presented covering topics traditionally taught in a college biology class for science majors, with data analysis being woven throughout the course. Biology labs will be taught with relevance to the topics covered in class, including collecting and analyzing datasets.

**Prerequisites:** Applicants should have a grade of 3.0 or higher in all high school mathematics classes taken, and they should have had Algebra II. Applicants should have had two semesters of high school science with a grade of 3.0 or higher in each course. Students who have taken (or plan to take) AP Statistics or AP Biology will find that other Governor's Schools are more suitable for them.

**Application deadline: Dec. 2, 2016**

## Governor's Schools of Tennessee – Application Checklist

### Is this application complete?

<input type="checkbox"/> Applicant Information Form
<input type="checkbox"/> Certification of Application <ul style="list-style-type: none"> <li><input type="checkbox"/> Applicant signs</li> <li><input type="checkbox"/> Parent/guardian signs</li> <li><input type="checkbox"/> Counselor/principal signs</li> </ul>
<input type="checkbox"/> Student Achievement Information <ul style="list-style-type: none"> <li><input type="checkbox"/> Counselor/principal completes and signs</li> </ul>
<input type="checkbox"/> Confidential Counselor Recommendation <ul style="list-style-type: none"> <li><input type="checkbox"/> Counselor/principal completes and signs</li> </ul>
<input type="checkbox"/> Confidential Teacher Recommendation 1 <ul style="list-style-type: none"> <li><input type="checkbox"/> Teacher 1 completes and signs</li> </ul>
<input type="checkbox"/> Confidential Teacher Recommendation 2 <ul style="list-style-type: none"> <li><input type="checkbox"/> Teacher 2 completes and signs</li> </ul>
<input type="checkbox"/> Official Transcript
<input type="checkbox"/> Questions referred to on page 6

## Governor's Schools of Tennessee – Teacher Recommendation Guide

The two Confidential Teacher Recommendation forms should be completed as follows:

Governor's School	Teacher Recommendation 1	Teacher Recommendation 2
Agricultural Sciences	Applicant's choosing	Applicant's choosing
Innovation & Entrepreneurship	Technology or business teacher	Applicant's choosing
Computational Physics	Science teacher	Math teacher
Emerging Technologies	Science teacher	Math teacher
Engineering	Science teacher	Math teacher
Humanities	English teacher	Applicant's choosing, preferably in humanities discipline
International studies	Foreign language teacher, if available	Social studies teacher, if available
Prospective Teachers	English teacher	Applicant's choosing
Sciences	Science teacher	Math teacher
Scientific Exploration of Tennessee Heritage	Social studies or science teacher	Humanities or arts teacher
Scientific Models and Data Analysis	Science teacher	Math teacher

**Please list the two teachers from whom the applicant is requesting confidential teacher recommendations.**

	Name	Subject
Teacher 1		
Teacher 2		

# Governor's Schools of Tennessee - Applicant Information Form

Student Information			
Last Name	First Name	Middle Name	
	, TN		
Mailing Address	City	Zip Code	County
Home Phone	Cell Phone	Email Address	
	<input type="checkbox"/> African-American/Black <input type="checkbox"/> Asian <input type="checkbox"/> Hispanic/Latino	<input type="checkbox"/> Caucasian <input type="checkbox"/> Multiracial <input type="checkbox"/> Other	
Date of Birth Month/Day/Year	Gender <input type="checkbox"/> Female <input type="checkbox"/> Male	Race (select all that apply)	

Parent/Guardian Information		
Parent/Guardian Name	Relationship to Applicant	
	, TN	
Mailing Address	City	Zip Code
Work Phone	Cell Phone	Email Address

School Information		
School Name	District Name	
Counselor Name	Phone	Email
	, TN	
Mailing Address	City	Zip Code

# Governor's Schools of Tennessee – Certification of Application

## Preference Indication

Any student applying to multiple Governor's Schools **must** rank the schools in order of preference on this form only (1=most preferred, etc.). It is not necessary to rank schools to which the student will not apply.

Ranking	Governor's School
	Agricultural Sciences
	Arts
	Computational Physics
	Emerging Technologies
	Engineering
	Humanities
	Innovation and Entrepreneurship
	International Studies
	Prospective Teachers
	Sciences
	Scientific Exploration of Tennessee Heritage
	Scientific Models and Data Analysis

## Student Assurances

I have not previously attended a Tennessee Governor's School, and I affirm, agree, and/or understand that all statements on this form are true and accurate; any misrepresentation or omission of material facts may result in disqualification or termination should I already be enrolled in a Tennessee Governor's School.

By making this application, I and my parent/guardian agree to the release of any necessary school records to the Governor's School and the respective university for the purpose of determining eligibility. I/we understand and agree that such school records will be kept confidential and used only for determining admissibility to the Governor's School. Students who do not agree to the release of such school records for determining admissibility will not be considered for the Governor's Schools.

I certify to the best of my knowledge all of the information provided in this application is correct. I acknowledge that information about me may be used for publicity purposes if I am selected to attend a Governor's School.

Applicant's Printed Name

Applicant's Signature

Date

## Parent/Guardian Assurances

I have carefully reviewed the information on this application and give my permission for my son/daughter to proceed with application procedures. I acknowledge that the Governor's Schools may offer university course credit and grades which will require university enrollment. I authorize the high school and its employees to release any information necessary for this application.

Parent/Guardian's Printed Name

Parent/Guardian's Signature

Date

## School Assurances

I nominate the applicant listed above for the Tennessee Governor's School and certify that the applicant meets the criteria and the prerequisites of the Governor's School to which the application is made. I recommend this student for admission to the Governor's School(s), for admission to the hosting university during summer session 2017, and for enrollment in university courses which may or may not allow the student to earn postsecondary credit and grades.

Principal/Counselor's Printed Name

Principal/Counselor's Signature

Date

Governor's Schools of Tennessee- School for Scientific Models and Data Analysis  
Application Questions

**Responses should be typed and submitted on a separate sheet of paper. Each question must be answered completely.**

1. Attach a detailed, typed resume customized to be appropriate for this school.

2. Write a 300-word essay on how so much of today's science is interdisciplinary and data driven.

## Governor's Schools of Tennessee – Student Achievement Information

While information pertaining to some of the following items may not be available for all students, please include all available information. Use the latest scores available. If your school does not rank, enter "do not rank" or "none."

### Student Information

<b>Student Information</b>					
Last Name		First Name		Middle Name	
<input type="checkbox"/> 10 <sup>th</sup> <input type="checkbox"/> 11 <sup>th</sup>					<input type="checkbox"/> 4.0 <input type="checkbox"/> 5.0
Current Grade	Class Size	Class Rank	GPA	Cumulative GPA	GPA Scale
<input type="checkbox"/> CTE (specify career cluster) <input style="width: 100%;" type="text"/>	<input type="checkbox"/> Science and Math	<input type="checkbox"/> Humanities	<input type="checkbox"/> Fine Arts	<input type="checkbox"/> AP/IB	<input type="checkbox"/> Other <input style="width: 100%;" type="text"/>
Elective Focus					
<input type="checkbox"/> Yes <input type="checkbox"/> No					
Does this student meet the GPA and other prerequisites set forth by the school in the application packet? If no, please do not submit an application for this student.					

### Achievement Tests

Test (list others as appropriate)	Grade Administered	Score	Percentile Ranking(s)
TCAP Writing Assessment			

### Aptitude Tests

Test	Grade Administered	Score	Percentile Ranking(s)
PLAN Composite			
ACT Composite			
PSAT Critical Reading			
PSAT Writing			
SAT Verbal			
SAT Math			
SAT Writing			
SAT II - specify test(s)			

### Intelligence Tests or Tests of Cognitive Ability

Name of Test	Grade Administered	Total Score / Subscores	Percentile Ranking(s)

### Any Relevant Test Scores

Name of Test	Grade Administered	Total Score / Subscores	Percentile Ranking(s)

### Principal/Counselor Score Certification

I certify to the best of my knowledge the below results are accurately reported.

Principal/Counselor's Printed Name

Principal/Counselor's Signature

Date



## Governor's Schools of Tennessee – Confidential Counselor Recommendation

### Student Information

Last Name	First Name	Middle Name
Governor's School(s)	High School	

**To the counselor:** the student listed above is applying for selection to a Tennessee Governor's School. A complete application requires the following information and evaluation from you. Please submit the entire application consisting of: Applicant Information form, Certification of Application form, Student Achievement Information form, this Confidential Counselor Recommendation form, two (2) Confidential Teacher Reference forms, the applicant's responses to school-specific application, and a transcript to the appropriate address listed on the cover. This form is for confidential use by Governor's School officials and will not be released.

### Attendance and Discipline

	2015-16	2016-17 (to date)
Number of days absent		
Number of disciplinary referrals (please explain or attach disciplinary record on separate sheet)		

### Counselor Recommendation

- Please provide narrative comments about this student to help with our evaluation. Narrative comments are extremely helpful to the selection committees during the evaluation process. Use a separate sheet if necessary.

- |   |  |
|---|--|
| 2. Have you reviewed the student's academic records?  | <input type="checkbox"/> Yes<br><input type="checkbox"/> No  |
| 3. Does the student meet the prerequisites of the Governor's School(s) to which this application is made? | <input type="checkbox"/> Yes<br><input type="checkbox"/> No  |
| 4. In your opinion, how academically qualified is the student for the Governor's School experience?       | <input type="checkbox"/> Highly Qualified<br><input type="checkbox"/> Qualified<br><input type="checkbox"/> Marginally Qualified<br><input type="checkbox"/> Not Qualified |
| 5. Do you recommend this student for the Governor's School(s) to which this application is made?          | <input type="checkbox"/> Yes<br><input type="checkbox"/> No  |

If the above-referenced students does not meet the prerequisites set forth in the application packet, is not academically qualified, and/or you would not recommend this student for a Governor's School, then the student is ineligible and an application should not be submitted.

Principal/Counselor's Printed Name

Principal/Counselor's Signature

Date

# Governor's Schools of Tennessee – Confidential Teacher Recommendation

## Student Information

Last Name	First Name	Middle Name
Governor's School(s)		High School
Applicant's school counselor		Deadline to return teacher recommendation

**To the teacher:** The above-referenced student is applying to attend one of the Tennessee Governor's Schools, an intensive residency program for mature, gifted, and talented students. This applicant has designated you as one of his or her teachers of reference. This recommendation form is a critically important part of the student's application and will have a significant role in the selection process. Please provide us with a candid, frank, and complete assessment of this student's maturity, attitude, work commitment, and creativity. This form will not become a part of the student's regular school records; it will be used solely by officials of the Governor's School to aid them in the selection process. The contents of this form will not be disclosed to the applicant or his/her parents/guardians. The Governor's School officials greatly appreciate your help in this selection process.

**Please return this completed form to the applicant's school counselor by the date listed above.**

1. How long have you known and worked with this applicant?		
2. In what situations have you served as this applicant's teacher?		
3. Please evaluate this applicant in the areas below, comparing him or her with similar outstanding students you have had in the past:		
<p><i>Ability to learn</i></p> <input type="checkbox"/> Learns very quickly <input type="checkbox"/> Learns readily <input type="checkbox"/> Average <input type="checkbox"/> Must work hard to learn <input type="checkbox"/> Does not learn easily	<p><i>Attitude toward work</i></p> <input type="checkbox"/> Outstanding <input type="checkbox"/> Above Average <input type="checkbox"/> Average <input type="checkbox"/> Can be indifferent <input type="checkbox"/> Lacks commitment	<p><i>Dependability/consistency</i></p> <input type="checkbox"/> Always dependable <input type="checkbox"/> Above average <input type="checkbox"/> Average <input type="checkbox"/> Occasionally unreliable <input type="checkbox"/> Usually unreliable
<p><i>Initiative</i></p> <input type="checkbox"/> Self-directed/motivated <input type="checkbox"/> Usually independent <input type="checkbox"/> Completes work assigned <input type="checkbox"/> Needs some prodding <input type="checkbox"/> Very hesitant	<p><i>Judgment</i></p> <input type="checkbox"/> Exceptionally good <input type="checkbox"/> Above average <input type="checkbox"/> Average for a teenager <input type="checkbox"/> Occasional poor judgments <input type="checkbox"/> Frequent poor judgments	<p><i>Maturity</i></p> <input type="checkbox"/> Extremely mature <input type="checkbox"/> Above average <input type="checkbox"/> Average teenager <input type="checkbox"/> Somewhat mature <input type="checkbox"/> Very immature
<p><i>Relations with others</i></p> <input type="checkbox"/> Exceptionally good <input type="checkbox"/> Above average <input type="checkbox"/> Average <input type="checkbox"/> Occasional conflicts <input type="checkbox"/> Many conflicts	<p><i>Quality of work</i></p> <input type="checkbox"/> Excellent <input type="checkbox"/> Very good <input type="checkbox"/> Average <input type="checkbox"/> Below average <input type="checkbox"/> Very poor	<p><i>Quantity of work</i></p> <input type="checkbox"/> Unusually high output <input type="checkbox"/> Above average <input type="checkbox"/> Average output <input type="checkbox"/> Not a great producer <input type="checkbox"/> Low output, slow
4. How would you describe the applicant's punctuality?		
<input type="checkbox"/> High <input type="checkbox"/> Average <input type="checkbox"/> Low		

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Governor's Schools of Tennessee – Confidential Teacher Recommendation  
(cont'd)

5. What is your best judgment about this applicant's emotional maturity and stability to deal with an intensive residency program in which he/she will meet new people, face new situations, and encounter new challenges during the weeks of the program?

- Will adapt readily to the changes and challenges and will be a successful participant
- Should be able to adapt to the changes and challenges with minimal adjustment
- Should succeed but will have some difficulty dealing with the stress
- This applicant may have some difficulty dealing with the stress and may not be successful
- This applicant will have great difficulty dealing with new situations and challenges

6. This applicant's outstanding personal qualities are:

7. The personal qualities this applicant should strive most to improve are:

8. Please indicate your overall judgment about this applicant:

- Very highly recommended, an outstanding student who will do well in the school.
- Highly recommended, a very good student who will be successful in the school.
- Recommended, a good student who will participate effectively in the school.
- Recommended with reservations, a good student but he/she may present some problems
- I do not recommend this student.

9. Summary Comments: We must select a relatively small number of students from a large pool of exceptional applicants. Please tell us something about this student that is not reflected in any of the above ratings which will help us make a decision. What makes this applicant truly exceptional? Summary comments are extremely important to the selection committees, and reference letters are acceptable. If you need more space, you may attach another sheet.

Name

Signature

Date

# Governor's Schools of Tennessee – Confidential Teacher Recommendation

## Student Information

Last Name	First Name	Middle Name
Governor's School(s)		High School
Applicant's school counselor		Deadline to return teacher recommendation

**To the teacher:** The above-referenced student is applying to attend one of the Tennessee Governor's Schools, an intensive residency program for mature, gifted, and talented students. This applicant has designated you as one of his or her teachers of reference. This recommendation form is a critically important part of the student's application and will have a significant role in the selection process. Please provide us with a candid, frank, and complete assessment of this student's maturity, attitude, work commitment, and creativity. This form will not become a part of the student's regular school records; it will be used solely by officials of the Governor's School to aid them in the selection process. The contents of this form will not be disclosed to the applicant or his/her parents/guardians. The Governor's School officials greatly appreciate your help in this selection process.

**Please return this completed form to the applicant's school counselor by the date listed above.**

1. How long have you known and worked with this applicant?		
2. In what situations have you served as this applicant's teacher?		
3. Please evaluate this applicant in the areas below, comparing him or her with similar outstanding students you have had in the past:		
<i>Ability to learn</i> <input type="checkbox"/> Learns very quickly <input type="checkbox"/> Learns readily <input type="checkbox"/> Average <input type="checkbox"/> Must work hard to learn <input type="checkbox"/> Does not learn easily	<i>Attitude toward work</i> <input type="checkbox"/> Outstanding <input type="checkbox"/> Above Average <input type="checkbox"/> Average <input type="checkbox"/> Can be indifferent <input type="checkbox"/> Lacks commitment	<i>Dependability/consistency</i> <input type="checkbox"/> Always dependable <input type="checkbox"/> Above average <input type="checkbox"/> Average <input type="checkbox"/> Occasionally unreliable <input type="checkbox"/> Usually unreliable
<i>Initiative</i> <input type="checkbox"/> Self-directed/motivated <input type="checkbox"/> Usually independent <input type="checkbox"/> Completes work assigned <input type="checkbox"/> Needs some prodding <input type="checkbox"/> Very hesitant	<i>Judgment</i> <input type="checkbox"/> Exceptionally good <input type="checkbox"/> Above average <input type="checkbox"/> Average for a teenager <input type="checkbox"/> Occasional poor judgments <input type="checkbox"/> Frequent poor judgments	<i>Maturity</i> <input type="checkbox"/> Extremely mature <input type="checkbox"/> Above average <input type="checkbox"/> Average teenager <input type="checkbox"/> Somewhat mature <input type="checkbox"/> Very immature
<i>Relations with others</i> <input type="checkbox"/> Exceptionally good <input type="checkbox"/> Above average <input type="checkbox"/> Average <input type="checkbox"/> Occasional conflicts <input type="checkbox"/> Many conflicts	<i>Quality of work</i> <input type="checkbox"/> Excellent <input type="checkbox"/> Very good <input type="checkbox"/> Average <input type="checkbox"/> Below average <input type="checkbox"/> Very poor	<i>Quantity of work</i> <input type="checkbox"/> Unusually high output <input type="checkbox"/> Above average <input type="checkbox"/> Average output <input type="checkbox"/> Not a great producer <input type="checkbox"/> Low output, slow
4. How would you describe the applicant's punctuality?		
<input type="checkbox"/> High <input type="checkbox"/> Average <input type="checkbox"/> Low		

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Governor's Schools of Tennessee – Confidential Teacher Recommendation  
(cont'd)

5. What is your best judgment about this applicant's emotional maturity and stability to deal with an intensive residency program in which he/she will meet new people, face new situations, and encounter new challenges during the weeks of the program?

- Will adapt readily to the changes and challenges and will be a successful participant
- Should be able to adapt to the changes and challenges with minimal adjustment
- Should succeed but will have some difficulty dealing with the stress
- This applicant may have some difficulty dealing with the stress and may not be successful
- This applicant will have great difficulty dealing with new situations and challenges

6. This applicant's outstanding personal qualities are:

7. The personal qualities this applicant should strive most to improve are:

8. Please indicate your overall judgment about this applicant:

- Very highly recommended, an outstanding student who will do well in the school.
- Highly recommended, a very good student who will be successful in the school.
- Recommended, a good student who will participate effectively in the school.
- Recommended with reservations, a good student but he/she may present some problems
- I do not recommend this student.

9. Summary Comments: We must select a relatively small number of students from a large pool of exceptional applicants. Please tell us something about this student that is not reflected in any of the above ratings which will help us make a decision. What makes this applicant truly exceptional? Summary comments are extremely important to the selection committees, and reference letters are acceptable. If you need more space, you may attach another sheet.

Name

Signature

Date