

# **Application for the**

**2021 Tennessee Governor’s School for**

***Integration of Biological and***

***Statistical Sciences***

# **at**

**East Tennessee State University Johnson City, TN**

# **General Information**

The Tennessee Governor’s Schools offer Tennessee high school students intensive learning experiences virtually or on postsecondary campuses. 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 educators who can speak to the student’s potential for success in the program. Each Governor’s School convenes an application review committee to select the students invited to attend each school.

**Governor’s School for**

**Integration of Biological and Statistical Sciences**

**East Tennessee State University**

**May 23, 2021 – June 25, 2021**

he School in Integration of Biological & Statistical Sciences 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 in Integration of Biological & Statistical Sciences 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.

**Application deadline: January 15, 2021**

Due to the COVID 19 Pandemic the 2021 Governor Schools may be conducted in a completely virtual setting if the pandemic is still impacting Tennessee. For this application to be processed correctly please answer the following question to indicate your level of attendance interest.

Place an “x” in the right-hand column to indicate your potential attendance status.

|  |  |
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| 1. Only if it was a resident program on a host campus |  |
| 1. Only if it was a virtual program |  |
| 1. I would attend either a resident or virtual program |  |

**Submitting the Application:**

Nominating educators should mail or electronically submit completed applications following directions provided by 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 Reference* forms and the confidential *Counselor/Administrator Verification* form; the nominating educator should keep one complete copy of the submitted application package.

Application Submission Instructions

Ensure applications are complete, arranged in the correct order, and contain all required signatures and documents as outlined below.

1. Nominating educators must submit applications electronically or with a postmark no later than the deadline(s) listed on page two of each application.
2. Each Governor’s School has specific essay and writing sample questions. All questions must be answered and submitted online or with the application packet.
3. Class rank, class size, numerical test scores, etc., must be verified by the school counselor or school administrator, if available. Please note that while PSAT, SAT, and ACT scores are not mandatory, but school administrators are strongly encouraged to include this information if available.
4. Students are to list two teachers (see school-specific list) to complete the confidential *Teacher’s Reference* forms. If the teacher is not the faculty member nominating the student, he/she should return the completed reference forms directly to the nominating educator. There is a space available at the bottom of the teacher reference form to put the name of the school personnel to whom the form is to be returned.
5. An **official high school transcript** and **transcript form** must be included in the application packet or uploaded online.
6. A personal photo is not required but is an optional submission document.

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| **Governor’s Schools of Tennessee – Application Checklist** |
| **Is this application complete?** |
| * Applicant Information Form   + Completed by applicant/parent/guardian |
| * Certification of Application   + Signed by applicant   + Signed by parent/guardian   + Signed by counselor/ administrator |
| * Student Achievement Information   + Completed and signed by counselor/principal |
| * Confidential Teacher Recommendation 1   + Completed and signed by teacher 1 |
| * Confidential Teacher Recommendation 2   + Completed and signed by teacher 2 |
| * Official Transcript |
| * Specific Questions referred to on page 4   + Student responds to each question |

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| **Governor’s Schools of Tennessee - Applicant Information Form** | | | | | | | | | | | | | |
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| **Student Information** | | | | | | | | | | | | | |
|  | | |  | | | | | | |  | | | |
| Last Name |  |  |  |  | First Name | |  |  |  | Middle Name | | | |
|  | | | | , TN | | | |  | | |  | | |
| Mailing Address | |  |  |  |  | City |  |  | Zip Code | | County | | |
|  | |  | | | | |  | | | | | | |
| Home Phone | |  |  |  | Cell Phone | |  |  |  | Email Address | | | |
|  | * Female * Male | | | |  | * Native American * Asian * Hispanic or Latino | |  |  | * Black or African American * White * Other | | | |
| Date of Birth  Month/Day/Year | Gender | |  |  |  | Race (select all that apply) | | | | |  |  |  |
| * US Citizen * Permanent   Resident Alien |  | |  |  |  | * Foreign Exchange Student | | | | |  |  |  |
| Residence Status |  | |  |  |  | Other Residence  Status | | | | |  |  |  |
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| **Parent/Guardian Information** | | | | | | | | | | | | | |
|  | | | | | | | | | |  | | | |
|  | Parent/Guardian Name | | | | |  |  |  |  | Relationship to Applicant | | | |
|  | | | | | | , TN | | | | | |  | |
| Mailing Address | |  |  |  |  |  | City | |  |  |  |  | Zip Code |
|  | | |  | | | | | |  | | | | |
| Work Phone | |  |  |  | Cell Phone | |  |  |  | Email Address | | | |
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| **School Information** | | | | | | | | | | | | | |
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| School Name | |  |  |  |  |  | District Name | | | |  |  |  |
|  | | |  | | | | | |  | | | | |
| Counselor Name | |  |  |  |  | Phone |  |  |  | Email | | | |
|  | | | | | | , TN | | | | | | |  |
| Mailing Address | |  |  |  |  |  | City | |  |  |  |  | Zip Code |
| Application Questions | | | | | | | | | | | | | | |
| **Instructions** | | | | | | | | | | | | | | |
| |  | | --- | | **Responses should be typed and submitted on a separate sheet of paper. Each question must be answered completely in its entirety**. | | 1. Attach a detailed, typed resume customized to be appropriate for this school. | | 2. Write a 350-word essay on how so much of today’s science is interdisciplinary and data driven. The  essay **MUST** be appropriate for this school. | | 3. The Governor’s School Application must be complete and legible. If the information on the  application is not legible then the application cannot be processed. ***Please type or print all***  ***information on application.*** |   Please note: The screening committee will only review applications that meet these requirements. Students who are accepted typically present superior standardized test scores, outstanding academic records, strong reference letters, clear writing talent, and an extensive record of school and community service. | | | | | | | | | | | | | | |

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| **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 |
|  | Humanities |
|  | Innovation and Entrepreneurship |
|  | Integration of Biological & Statistical Sciences |
|  | International Studies |
|  | Prospective Teachers |
|  | Sciences and Engineering |
|  | Scientific Exploration of Tennessee Heritage |
| **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 2021, and for enrollment in university courses which may or may not allow the student to earn postsecondary credit and grades. | | |
| Nominating Educator Printed Name | | |
| Nominating Educator Signature |  | Date |

**Governor’s Schools of Tennessee – Student Achievement Information**

**To the counselor/school administrator:** The student listed below is applying for selection to a Tennessee

Governor’s School. A complete application requires the following information and verification from you. 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.”

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| **Student Information** | | | | | | | |
|  | | |  | | |  | |
|  | Last Name |  | First Name | |  |  | Middle Name |
| ☐ 10th ☐ 11th |  |  |  | | |  | |
| Current  Grade | Class Size | Class Rank | “HOPE Scholarship GPA” | |  |  | Cumulative GPA |
| * CTE (specify [career cluster)](https://www.tn.gov/education/career-and-technical-education/career-clusters.html) | | * Science and Math | * Humanities | * Fine Arts | * AP/IB | | * Other (specify) |
| **Elective Focus** | | | | | | | |
| If the above-referenced student 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. | | | | | | | |

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| **Achievement Tests** | | | |
| *Test (list others as appropriate)* | *Grade Administered* | *Score* | *Percentile Ranking(s)* |
| Current State Achievement Test |  |  |  |
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|  |  |  |  |
| **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) |  |  |  |
|  |  |  |  |
|  |  |  |  |
| **Any Additional Relevant Test Scores** | | | |
| *Name of Test* | *Grade Administered* | *Total Score /*  *Subscores* | *Percentile Ranking(s)* |
| ACT Math Composite |  |  |  |
| ACT Science Composite |  |  |  |
|  | | | |

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| **Attendance and Discipline** | | |
|  | *2019-20* | *2020-21 (to date)* |
| Number of days absent |  |  |
| Number of disciplinary referrals  (please explain or attach disciplinary record on separate sheet) |  |  |

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| **Counselor/Administrator Verification** | |
| 1. 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? | * Yes * No |
| 3. Does the student meet the prerequisites of the Governor’s School(s) to  which this application is made? | * Yes * No |
| 4. In your opinion, how academically qualified is the student for the Governor’s School experience? | * Highly Qualified * Qualified * Marginally Qualified * Not Qualified |
| I certify to the best of my knowledge the above results are accurately reported. |  |
| Counselor/administrator’s Printed Name |  |
| Counselor/administrator’s Signature | Date |

**Governor’s Schools of Tennessee – Student Achievement Information**

**Governor’s Schools of Tennessee – Student Achievement Information**

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| 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 |
| Arts | | Arts area 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 |
| Innovation & Entrepreneurship | | Technology or business teacher | | Applicant’s choosing |
| Integration of Biological & Statistical  Sciences | | Science teacher | | Math teacher |
| International Studies | | Foreign language teacher, if  available | | Social studies teacher, if available |
| Prospective Teachers | | English teacher | | Applicant’s choosing |
| Sciences & Engineering | | Science teacher | | Math teacher |
| Scientific Exploration of Tennessee  Heritage | | Social studies or science teacher | | Humanities or arts teacher |
|  | | | | |
| **Please list the two teachers from whom the applicant is requesting confidential teacher**  **Recommendations from.** | | | | |
|  | **Name** | | **Subject** | |
| Teacher 1 |  | |  | |
| Teacher 2 |  | |  | |

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| **Governor’s Schools of Tennessee – Confidential Teacher Recommendation** | | |
| **Student Information** | | |
|  |  |  |
| Last Name | First Name Middle Name | |
|  | | |
| Educator nominating applicant: | Deadline to return teacher recommendation | |

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| **To the teacher:** The above-referenced student is applying to attend one of the Tennessee Governor’s Schools, an intensive residency or virtual 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 nominator 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: | | |
| *Ability to learn*   * Learns very quickly * Learns readily * Average * Must work hard to learn * Does not learn easily | *Attitude toward work*   * Outstanding * Above Average * Average * Can be indifferent * Lacks commitment | *Dependability/consistency*   * Always dependable * Above average * Average * Occasionally unreliable * Usually unreliable |
| *Initiative*   * Self-directed/motivated * Usually independent * Completes work assigned * Needs some prodding * Very hesitant | *Judgment*   * Exceptionally good * Above average * Average for a teenager * Occasional poor judgments * Frequent poor judgments | *Maturity*   * Extremely mature * Above average * Average teenager * Somewhat mature * Very immature |
| *Relations with others*   * Exceptionally good * Above average * Average * Occasional conflicts * Many conflicts | *Quality of work*   * Excellent * Very good * Average * Below average * Very poor | *Quantity of work*   * Unusually high output * Above average * Average output * Not a great producer * Low output, slow |
| 4. How would you describe the applicant’s punctuality? | | |
| * High ☐ Average ☐ 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? Could this student adapt to a virtual program? |
| * This applicant will adapt readily to the changes and challenges and will be a successful participant. * This applicant should be able to adapt to the changes and challenges with minimal adjustment. * This applicant 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 | |
|  | | |
| Educator nominating applicant: | 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 nominator 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: | | |
| *Ability to learn*   * Learns very quickly * Learns readily * Average * Must work hard to learn * Does not learn easily | *Attitude toward work*   * Outstanding * Above Average * Average * Can be indifferent * Lacks commitment | *Dependability/consistency*   * Always dependable * Above average * Average * Occasionally unreliable * Usually unreliable |
| *Initiative*   * Self-directed/motivated * Usually independent * Completes work assigned * Needs some prodding * Very hesitant | *Judgment*   * Exceptionally good * Above average * Average for a teenager * Occasional poor judgments * Frequent poor judgments | *Maturity*   * Extremely mature * Above average * Average teenager * Somewhat mature * Very immature |
| *Relations with others*   * Exceptionally good * Above average * Average * Occasional conflicts * Many conflicts | *Quality of work*   * Excellent * Very good * Average * Below average * Very poor | *Quantity of work*   * Unusually high output * Above average * Average output * Not a great producer * Low output, slow |
| 4. How would you describe the applicant’s punctuality? | | |
| * High ☐ Average ☐ 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? Could this student adapt to a virtual program? |
| * This applicant will adapt readily to the changes and challenges and will be a successful participant. * This applicant should be able to adapt to the changes and challenges with minimal adjustment. * This applicant 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