



JUDGE VOLUNTEER FORM

This form can also be completed online at <https://goo.gl/forms/XKQANESvA4Hn3Uoa2>

The Georgia Science & Engineering Fair (GSEF) is Georgia's premier forum for students to showcase their original research, compete for awards, and interact with top scientists from around the state. Every year GSEF depends on the help of about 300 volunteer judges to interview the students about their research and select award winners. We hope you will join our team!

WHEN: **Friday, March 29, 2019**

WHERE: The Classic Center, 300 N Thomas St, Athens, GA

APPLY BY: February 1, 2019, but we kindly request forms as early as possible so we may plan division/category distributions.

1. First Name: _____ Last Name: _____
2. Institution/Company: _____
Major/Department: _____
Area(s) of Expertise: _____
3. Residence City/State: _____
4. Cell Phone #: _____
Cell #'s needed to send mobile judging assignments day-of, locate you during judging in the exhibit hall, or if we have questions about your feedback day-of.
5. Other phone: _____
6. Primary email: _____
(please print clearly)
7. Backup email: _____
(please print clearly)
8. I have judged at previous GSEFs: 10+ years 4-10 years 1-3 years I'm new at this
9. Education: Doctorate Doctoral student MA/MS MA/MS student Bachelor's Undergrad student Other

10. Select the **Division(s)/Tier(s)** that you are best qualified for and interested in judging. See page 2 for [judge qualifications/details](#).

- Junior Division** (grades 6-8)
 Senior Division (grades 9-12) - **Tier I** (Category Judge)
 Senior Division (grades 9-12) - **Tier II** (Category Chair)
 Senior Division (grades 9-12) - **Tier III** (Grand Awards)

AND, in addition to my regular (Junior/Senior Division) judging duties, I am also willing to serve as a:

- Junior Division Category Leader**
 Special Award Judge (in the event an organization that has sponsored a special award cannot provide their own judges to determine their winners)

11. Rank three (3) or more **Categories** that you can judge by marking them 1, 2, 3, etc. We will try to assign you to one of your choices depending on project distribution; judges may be assigned to an overall area (e.g., Life Sciences) depending on expertise. See page 3 for [category descriptions](#).

LIFE SCIENCES:	MEDICINE & HEALTH:	MATH, COMPUTING & ENGINEERING:	EARTH, ENERGY & ENVIRONMENT:	PHYSICAL SCIENCES:
___ Animal Sciences	___ Behavioral & Social Science	___ Embedded Systems	___ Earth & Environmental Science	___ Chemistry
___ Biochemistry	___ Biomedical & Health Science	___ Engineering Mechanics *	___ Environmental Engineering *	___ Materials Science *
___ Cellular & Molecular Biology	___ Biomedical Engineering (new 2019)	___ Mathematics	___ Energy: Chemical *	___ Physics & Astronomy *
___ Microbiology	___ Computational Biology & Bioinformatics	___ Robotics & Intelligent Machines	___ Energy: Physical *	
___ Plant Sciences	___ Translational Medical Science (new 2019)	___ Systems Software		

*** Starred categories are where we often need more judges.**

12. List the names of any **students in grades 6-12** who might advance to GSEF and whom you have mentored, taught, or are related to:

Attach additional if necessary

Please submit ASAP / by February 1, 2019

GSEF@georgiacenter.uga.edu
(SAVE PDF before attaching)

Fax: 706-542-7537
(no cover necessary)

Georgia Science & Engineering Fair
1197 S Lumpkin St, Ste 198 • Athens, GA 30602

JUDGE VOLUNTEER DETAILS

Judge Qualifications

Senior Division Tier I, II, III Judges (Grades 9-12)

- doctorate or other terminal degree (PhD, MD, DDS, DVM, etc.); or
- substantial research experience in a PhD program in a scientific discipline; or
- bachelor's or master's degree and a minimum of six years of professional experience in a relevant discipline

Junior Division Judges (Grades 6-8)

- any of the Senior Division Tier Judge qualifications listed above; or
- research experience in a relevant professional or industrial setting; or
- graduate standing in a discipline related to one of the project categories or in a relevant education program; or
- significant progress toward, or completion of, an undergraduate degree in a scientific discipline (additional info may be requested)

What will my experience be like?

Senior Division Tier I: 9:00 AM – 4:00 PM

Needed: 175

Tier I judges range from first-timers to those with over twenty years of judging experience. They judge Senior Division, grades 9-12, during Round 1. After checking in, you will have training and orientation, during which you will receive a text message or email link to the GSEF judging web app (no app download required). The web app will provide a list of specific projects to judge, usually all in one category. You will be introduced to the Tier II judge to whom you will report. Then you will have 90 minutes to preview your assigned category while the students are away and to make notes for your interviews. While previewing your projects, you will also be alert for Special Award candidates. After your lunch (provided), the students arrive for Round 1. Interview a student and score the project in the judging app. When you have interviewed all your students, meet with your Tier II to discuss your top projects. Only your Tier II may dismiss you. Please keep your cell phone on until at least 6:00 PM, in case we need to clarify anything.

Senior Division Tier II: 9:00 AM – 6:00 PM

Needed: 15-20

Tier II judges have judged at least 3 years. Tier II and III judges meet together at 9:00 AM, then they join the Tier I judges for additional instruction. You will be assigned a group of Tier I judges (you will be responsible for collecting all their paperwork after judging). Then you will have 90 minutes to preview all the exhibits in your category. While previewing, you will also be alert for Special Award candidates. Tier II judges have a variety of different tasks during the Round 1 interview period – some also perform Tier I student interviews. After Round 1, you will meet with your Tier I judges to discuss their top projects. During Round 2, you will interview the top projects and pare the list down to your own Top Three. After Round 2, discuss this list and your Best in Category choice(s) with your Tier III. Turn in any remaining score or comment sheets. Your Tier III will dismiss you. Please keep your cell phone on until at least 9:00 PM, in case we need to clarify anything.

Senior Division Tier III: 9:00 AM – 9:00 PM

Needed: 10

Tier III judges have at least 4 years of Tier II experience. Tier II and III judges meet together at 9:00 AM, then they join the Tier I judges for additional instruction. After orientation, you will preview all exhibits in the Senior Division, looking for exhibits that fit the criteria of Special Awards. During judging, you will be discreetly talking with students, including those you suspect might end up on the Top Three lists, and you will conduct interviews for some Special Awards. You may be asked to assist or fill in for a Tier I or II judge during Round 1 or 2 or be assigned other responsibilities. You are responsible for checking that your Tier IIs have turned in all materials before you dismiss them. In the evening, you will discuss the Top Three and Best in Category suggestions and select winners.

Junior Division Judge: 10:00 AM – 3:00 PM

Needed: 125

Junior Division judges include many first-timers along with many experienced judges. After checking in, you will have training and orientation, during which you will receive a text message or email link to the GSEF judging web app (no app download required). The web app will provide a list of specific projects to judge, usually all in one category. After training you will have a quick lunch (provided) and head for the exhibits. Interview a student and score the project in the judging app. Once you have interviewed and scored all of your assigned projects and submitted all comment sheets, you are free to leave - or see the Help Desk for more project assignments!

Junior Division Category Leader: 3:30 PM – 5:00 PM (in addition to your Tier I or Junior Division judging time)

Needed: 20

These are Tier or Junior Division judges who are also responsible for helping select Best in Category for a Junior Division category.

Special Awards Judge: 12:30 PM – varies

Needed: 20

Special Award Judges judge a specific award for a particular sponsor. Qualifications and processes are different for every award. Some Special Award Judges also serve as Tier or Junior Division judges, and some judge for more than one SPAWD. Upon arrival you will receive an information packet and instructions for the specific award(s) you will be judging, as well as any Special Award Recommendation Slips filled out by other judges during previews. Beginning at 12:30 PM you will interview the students you have selected as being contenders for your award. Once you have selected your winner(s), bring your Special Award Selection Form to the GSEF Office before leaving. Please keep your cell phone on until at least 6:00 PM, in case we need to clarify anything.

Thank you for serving as a GSEF judge! We absolutely could not provide this opportunity to our young researchers without your generous dedication of time, energy, and expertise. Each year it seems we see higher and higher quality of projects advancing to GSEF. It can be very difficult to determine which projects will win certain awards. In the interest of our student participants and the integrity of the awards process, we request that judges **commit to not speak to students about how they expect their project will place, even casually or encouragingly.** Thank you for your help in making GSEF a positive experience for all!

2019 GSEF PROJECT CATEGORIES

Life Sciences

ANIMAL SCIENCES

*Animal Behavior
Cellular Studies
Development
Ecology
Genetics
Nutrition & Growth
Physiology
Systematics & Evolution*

BIOCHEMISTRY

*Analytical Biochemistry
General Biochemistry
Medical Biochemistry
Structural Biochemistry*

CELLULAR & MOLECULAR BIOLOGY

*Cell Physiology
Cellular Immunology
Genetics
Molecular Biology
Neurobiology*

MICROBIOLOGY

*Antimicrobials & Antibiotics
Applied Microbiology
Bacteriology
Environmental Microbiology
Microbial Genetics
Virology*

PLANT SCIENCES

*Agriculture & Agronomy
Ecology
Genetics/Breeding
Growth & Development
Pathology
Plant Physiology
Systematics & Evolution*

Math, Computing & Engineering

EMBEDDED SYSTEMS

*Circuits
Internet of Things
Microcontrollers
Networking & Data Communications
Optics
Sensors
Signal Processing*

ENGINEERING MECHANICS

*Aerospace & Aeronautical Engineering
Civil Engineering
Computational Mechanics
Control Theory
Ground Vehicle Systems
Industrial Engineering-Processing
Mechanical Engineering
Naval Systems*

MATHEMATICS

*Analysis
Combinatorics, Graph Theory, Game Theory*

*Geometry & Topology
Number Theory
Probability & Statistics*

ROBOTICS & INTELLIGENT MACHINES

*Biomechanics
Cognitive Systems
Control Theory
Machine Learning
Robot Kinematics*

SYSTEMS SOFTWARE

*Algorithms
Cybersecurity
Databases
Human/Machine Interface
Languages & Operating Systems
Mobile Apps
Online Learning*

Earth, Energy & Environment

EARTH & ENVIRONMENTAL SCIENCE

*Atmospheric Science
Climate Science
Environmental Effects on Ecosystems
Geosciences
Water Science*

ENVIRONMENTAL ENGINEERING

*Bioremediation
Land Reclamation
Pollution Control
Recycling & Waste Management
Water Resources Management*

ENERGY: CHEMICAL

*Alternative Fuels
Computational Energy Science
Fossil Fuel Energy
Fuel Cells & Battery Development
Microbial Fuel Cells
Solar Materials*

ENERGY: PHYSICAL

*Hydro Power
Nuclear Power
Solar
Sustainable Design
Thermal Power
Wind*

Medicine & Health

NOTE: The Medicine & Health area is new for GSEF 2019 and includes categories that were previously in Life Sciences, as well as Computational Biology & Bioinformatics, previously in Math, Computing & Engineering.

BEHAVIORAL & SOCIAL SCIENCES

*Clinical & Developmental Psychology
Cognitive Psychology
Neuroscience
Physiological Psychology
Sociology & Social Psychology*

BIOMEDICAL & HEALTH SCIENCES

*Cell, Organ, & Systems Physiology
Genetics & Molecular Biology of Disease
Immunology
Nutrition & Natural Products
Pathophysiology*

BIOMEDICAL ENGINEERING

*Biomaterials & Regenerative Medicine
Biomechanics
Biomedical Devices
Biomedical Imaging
Cell & Tissue Engineering
Synthetic Biology*

COMPUTATIONAL BIOLOGY & BIOINFORMATICS

*Computational Biomodeling
Computational Epidemiology
Computational Evolutionary Biology
Computational Neuroscience
Computational Pharmacology
Genomics*

TRANSLATIONAL MEDICAL SCIENCE

*Disease Detection & Diagnosis
Disease Prevention
Disease Treatment & Therapies
Drug Identification & Testing
Pre-Clinical Studies*

Physical Sciences

CHEMISTRY

*Analytical Chemistry
Computational Chemistry
Environmental Chemistry
Inorganic Chemistry
Materials Chemistry
Organic Chemistry
Physical Chemistry*

MATERIALS SCIENCE

*Biomaterials
Ceramic & Glasses
Composite Materials
Computation & Theory
Electronic, Optical & Magnetic Materials
Nanomaterials
Polymers*

PHYSICS & ASTRONOMY

*Atomic, Molecular, & Optical Physics
Astronomy & Cosmology
Biological Physics
Condensed Matter & Materials
Mechanics
Nuclear & Particle Physics
Theoretical, Computational, Quantum Physics*