Regeneron Science Talent Search 2020 Application Questions

This document previews the application questions for the Regeneron Science Talent Search online application. ALL entries must be submitted through the online application system; hard copies will not be accepted. The application deadline is **Wednesday, November 13, 2019 at 8pm Eastern Time**. The online application can be accessed at https://sciencetalentsearch.fluidreview.com.

We encourage entrants to explore the FAQ page on the application website, which explains many features of the application system. Entrants may also email sts@societyforscience.org with any questions they may have. Please be aware this document contains many branching questions that are hidden within the application. Some of these questions will only appear based on the entrant's response to a previous question. The application appears here in its longest state. Text in red is explanatory text and not included within the online application.

Internal Homepage

Regeneron Science Talent Search 2020 Application

Welcome! The Society for Science & the Public has proudly produced the Science Talent Search for the past 78 years. We look forward to receiving your application to the nation's oldest and most prestigious science and math competition for high school seniors. Review the deadlines and read the instructions below.

Application Instructions:

1. **Review the Regeneron STS** Rules and Entry Instructions 2020 **document** and the Research Report Guidelines before you start. You may review the full set of Application Questions 2020, but must submit your answers within the Tasks below.
2. **Mark your calendar** with these dates:
   o Technical Support Deadline: **Tuesday, November 12, 2019 at 8:00 p.m. Eastern Time**
   o Application Deadline: **Wednesday, November 13, 2019 at 8:00 p.m. Eastern time**
3. **Complete Tasks 1-12 below.** You don't need to complete the application in one sitting; you may save your work and continue to edit up until the deadline. If you try to save an incomplete page that contains required questions, you will receive a warning but the content will save. All components of the application must be submitted through this online system; all documents uploaded into this application should be in PDF format. We recommend that you also save your essays in a Word or other document to eliminate the risk of losing your work if there is a disruption in internet service.
4. **Request recommendations** early in the application process through the online system (Task 2 has further instructions). The High School Report includes a request for your transcript.
5. **Submit!** You must click the "submit" button at the bottom of the task list to submit your application. You may continue to edit your application up until the deadline. We recommend downloading your full application for your records (use the "download" button in the upper right hand corner).

Questions? Check out the Application FAQs page or email us at sts@societyforscience.org.

Task 1: Demographic & High School Information

Please complete eligibility and basic demographic information, and tell us about your high school.

Eligibility

Select the option that best describes you:

- ○ I am a high school senior living in the United States with an expected graduation date of Winter 2019 or Spring 2020 (eligible to apply)
- ○ I am a high school senior living abroad but I meet the eligibility requirements (eligible to apply)
- ○ I am a high school teacher or mentor
- ○ Other _____

ABOUT YOU

Your Legal Name

First Name on Your Transcript

Middle Name on Your Transcript (optional)

Last Name on Your Transcript

Alternate/Nickname for Your Biography

What do you like to be called?

Gender (optional)

- ○ Female
- ○ Male
- ○ Other

Preferred Gender Pronouns

- ○ she/her/hers
- ○ he/him/his
- ○ they/them/theirs
- ○ other _____

Parent/Guardian #1

(this field is listed four times in the application)

First Name

Last Name	
Relationship to You	

REGENERON SCIENCE TALENT SEARCH RULES CONFIRMATION

Read the Regeneron Science Talent Search Rules and Entry Instructions 2020 document.   This is a required step in order for you to understand the eligibility requirements, rules regarding human and animal research and more. The rules document contains a helpful checklist for all applicants. We strongly recommend that you review it.

☐ I have read, understand, and agree to abide by the Regeneron STS Rules.

SCHOOL INFORMATION

Current High School Name and College Board Code

Select your school from the list below. You may search by your high school's name, CEEB code, zip code, city or state. Note: If your school is not listed here, please email sts@societyforscience.org. We are happy to add your school to this list (could take up to 2 business days).Do not select a school you do not actually attend. We typically add 100+ schools to this list each year.

Where is your high school located?

○ I attend school in the United States or in a U.S. territory
○ I attend high school abroad

High School Address:

Please provide your high school's website:

Type of School:

Please select all that apply.

☐ Public
☐ Private
☐ Homeschool
☐ Magnet School
☐ Charter School
☐ Dual Enrollment

Are you graduating from high school early?

Are you completing your high school coursework in less than 4 years and/or graduating a year or semester early and/or choosing to forgo graduating from high school? We ask this question to verify your eligibility for Regeneron STS.
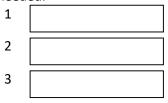
○ Yes
○ No

If yes, please explain the circumstances and why you believe you are still eligible for Regeneron STS.

Current Coursework

In what classes are you currently enrolled? Enter up to eight (three are required). Grades are not needed.

1
2
3

Task 2: Recommender Requests

You are responsible for requesting three types of recommendations. The linked instructional documents will help you determine the best person to ask to complete each type. Recommendations are also due on November 13, 2019 at 8pm Eastern Time; materials will not be accepted past the deadline, including letters of recommendation. Visit our Application FAQ for tips and to learn more about this process.

Read the instructional documents for each recommendation type below, then click the checkbox to acknowledge that you understand this process. The ability to request recommendations will then appear in your Task List on the internal home page. You may also request a second recommendation for each type (optional); these extra recommendation tasks will appear at the bottom of your Task List. It is your responsibility to remind your recommenders to submit their recommendations. You will receive an automated email when each recommender submits. If you are unsure of the status of your recommendations, feel free to email sts@societyforscience.org and our team will confirm.

TIP: Sometimes entrants decide to swap/replace/reorder their requested recommenders. We do not recommend this unless you know for sure that an adult has NOT completed a recommendation on your behalf (double check with us first). If by chance the adult has already completed the recommendation, you will delete the content and we will not be able to retrieve it. When you attempt to reorder the requests you will delete them; please note that the recommendations appear to judges and evaluation in the order they were received, and no importance is placed on order of recommendations in the review process.

Instructional Documents for Each Type of Recommendation:

1. Educator Recommendation Instructions
2. Project Recommendation Instructions
3. High School Report Instructions
(instructional documents are available within the application)

Click the box below to acknowledge your understanding of this requirement.

I have read the documents above and understand that it is my responsibility to request three types of recommendations through the online application system. I will ask my recommenders to complete the required documents by the deadline, November 13, 2019.

☐   I agree

Task 3: Rules Wizard/Form Uploads

See the Regeneron STS Official Rules for help navigating this section. If you have specific questions about your entry or need assistance with this section, please email our help account at sts@societyforscience.org.

Research that involves humans, vertebrate animals, or human or vertebrate animal tissue must adhere to Regeneron STS rules. Researchers must obtain special permissions and approvals to work with these subjects. This survey will guide all entrants to upload paperwork dependent on the topic of research. If this applies to your work, please make sure IRB and IACUC approval forms and wildlife permits are properly signed, that any surveys and informed consent documents uploaded are blank, and any other paperwork is properly completed. Exempt human and animal tissue studies will still need to upload documentation about the source of the tissue.

This section appears in its longest form. Projects that do not involve humans and/or vertebrate animals will not need to submit forms. All entrants are required to answer the basic questions 1-4 in this section to determine if they need to complete any of the sub-tasks. We strongly recommend reviewing this form within the application, rather than via this pdf, as the if/then logic of the form will guide entrants toward the appropriate next question and steps.
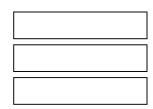
HUMAN RESEARCH

1. Does your project involve the use of human participants, including surveys (written, in-person or online), and/or did you test a product of your project (your invention, prototype or computer application) using human participants other than yourself?

○ Yes
○ No

1a. Institutional Review Board Details

Type of IRB (high school, university, etc.)

Date of IRB Approval or Renewal (MM/DD/YYYY)

Approval Number Assigned by the IRB (if none, write 1)

1b. IRB Upload - Human Behavioral

Upload your IRB approval (or summary page if over 3 pages long), a copy of the <u>blank</u> informed consent form you used (if any), AND a copy of a <u>blank</u> sample survey (if any). Even if you believe your project is exempt we would like to know a few details. Your IRB approval form must be signed and boxes properly checked or your entry might fail to qualify. Upload your blank survey and a copy of the informed consent document if documentation of informed consent/assent/parental permission is required by the IRB. Merge your required documents together into one PDF to upload here.PDF file ONLY

2. Does your project involve the use of human tissue?

○ Yes
○ No

2a. Is your tissue exempt from IRB review? You will be asked to provide information about the source of the tissue either way.

Some studies involving human data or human tissue samples are not considered human participant projects and are exempt from IRB review and approval.

These include:
- Studies in which the data or tissue samples are preexisting and publicly available.
- Behavioral observations of unrestricted public settings in which the researcher has no interaction with the individuals being observed and the researcher does not manipulate the environment and the researcher does not record any personally identifiable data.
- Research in which the student receives preexisting or retrospective data or tissue samples in a de-identified/anonymous format. The student mentor must certify in the online recommendation form that the data or tissue samples were not collected for the purpose of the student's project, have been appropriately de-identified before being given to the student and are in compliance with all HIPAA laws.

○ Yes
○ No

2b. If your tissue is not exempt, provide the following information:

Title of Study from which tissue was obtained

Type of IRB (high school, research institution, etc):

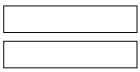Date of IRB Approval (MM/DD/YYYY)

2c. IRB Upload - Human Tissue

Upload the summary page of the IRB approval from which the tissue came. Your mentor/supervising scientist should be able to help you locate this required information. PDF file ONLY

2d. If your tissue is exempt from IRB review, provide the following information:

If cell line/tissue was obtained from a commercially available collection, indicate the source and catalog number.

If the cell line/tissue was obtained from a non-commercial source, describe the tissue and how/where it was obtained.

2e. Provide documentation from the supplier of the exempt cell line/tissue.

Upload any documentation you may have, or a letter than explains what was used and how it was obtained.

[ ]

3. Does your project involve the use of data collected from humans (i.e. surveys, test scores, medical records, etc.) that were not collected by you nor your mentor?

○ Yes
○ No

3a. Explain how your data was obtained. (maximum 200 words)

[ ]

3b. Identifiable information: choose the option below that best describes your data.

○ I worked with de-identified data. (This means that there were no names with the data when it was given to you. If it did come with names, do not check this box.)
○ When the data (surveys, medical records, etc.) was given to me, it included names.

3c. Explain when names were removed from the data. (maximum 150 words)

[ ]

ANIMAL RESEARCH

4. Does your project involve live, non-human vertebrate animals or non-human vertebrate animal tissue?

Select all that apply:

☐ Yes, I observed live, non-human vertebrate animals in their natural habitat(s)
☐ Yes, I worked with live, non-human vertebrate animals in a Regulated Research Institution
☐ Yes, I worked with non-human vertebrate animal tissue obtained by a supervising scientist
☐ No, I did not work with non-human vertebrate animals

I have read, understand, and attest that the research presented abides by the Regeneron STS Rules and Eligibility 2018 document pertaining to the use of non-human vertebrate animals.

☐ I agree

4a. Provide additional information about your work with non-human vertebrate animals.

List the genus, species, common names of the animal(s) involved in the project (maximum 75 words):

Explain where the study was conducted, including name and location of research institution or field work (maximum 150 words):

Please provide a description of how animals were used in this research. (maximum 300 words)

4b. Did you have any physical contact whatsoever with the animals?

○ Yes

○ No

Explain the physical contact.

Observational and Behavioral Non-Human Vertebrate Animal Research

1. Did your study only involve observations of the animal(s) in their natural habitat?

○ Yes: I solely observed the animals in their natural environments; no experimental or behavioral procedures were conducted for the project; the study did not affect the animal's health or well-being by causing stress or discomfort

○ No: My project involved more than observations.

2. Describe your interactions and trainings to work with the animals (Observational and Behavioral).

What trainings did you undergo, if any?

3. Please provide any information on field permits, gaming licenses, or permissions that you or your mentor obtained for this research. (maximum 150 words)

4. Permits - Animal Behavioral

Please upload a scan of any permits or permissions you obtained prior to experimentation. Permits must be signed and boxes properly checked.PDF file ONLY

5. Research Institutions

Was the study performed in conjunction with a Registered Research Institution?

- ○ Yes
- ○ No

Institution Name:

[   ]

Title of study receiving IACUC approval:

[   ]

IACUC Approval Number:

[   ]

Date of IACUC approval (MM/DD/YYYY):

[   ]

6. Please provide a brief description of the supervising scientist's study:

How is your project related to this study? (maximum 200 words)

[   ]

7. IACUC Upload - Behavioral or Observational Studies

Please upload a scan of the summary page of the IACUC approval for the original study. Paperwork must be signed and boxes properly checked.PDF file ONLY

[   ]

Non-Human Vertebrate Animal Tissue Studies

1. Does your project involve non-human vertebrate animal tissue that is exempt from IACUC review?

- ○ Yes, it is exempt
- ○ No, it is not exempt

Non-human vertebrate animal tissue exempt from IACUC review:

If cell line obtained from commercially available collection, please mention source and catalog #. If cell line from a private source, provide some identifying information from the supplier.

List the genus, species, common name and tissue(s) of the animal(s) involved in the project.

[   ]

If cell line/tissue was obtained from a commercially available collection, indicate the source and catalog number.

[   ]

If the cell line/tissue was obtained from a non-commercial source, describe the tissue and how/where it was obtained.

[   ]

Provide documentation from the supplier of the exempt cell line/tissue.

Upload any documentation you may have, or a letter to explain the source.

[   ]

2. Describe your interactions and trainings to work with the vertebrate animal tissue.

Please explain your interaction with the tissue. (maximum 200 words)

Please provide a description of the training you received (maximum 100 words)

3. Please provide the following information about the supervising scientist's study:

Name of Registered Research Institution (and department, if any):

Name, title, and contact information for supervising scientist:

Title of the supervising scientist's study receiving (IACUC) approval:

IACUC approval number:

Date of IACUC approval (MM/DD/YYYY):

How is your project related to this study?

4. IACUC Upload - Non-Human Vertebrate Animal Tissue

Please upload a scan of the summary page of the IACUC approval for the original study. Paperwork must be signed and boxes properly checked.PDF file ONLY

Other Use of Live Non-Human Vertebrate Animals

1. Describe your interactions and trainings to work with the vertebrate animals.

Please explain your interaction with the animals. (maximum 200 words)

Please provide a description of any trainings you received on working with vertebrate animals and the dates of training(s). (maximum 100 words)

2. Please provide the following information about the supervising scientist's study:
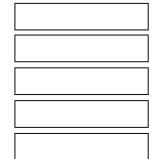
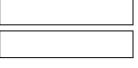Name of Registered Research Institution (and department, if any):

Name, title, and contact information for supervising scientist:

Title of the supervising scientist's study receiving (IACUC) approval:

IACUC approval number:

Date of IACUC approval (MM/DD/YYYY):

How is your project related to this study? (maximum 250 words)

3. IACUC Upload - Live Non-Human Vertebrate Animal Study

Please upload a scan of the summary page of the IACUC approval for the original study. Paperwork must be signed and boxes properly checked.PDF file ONLY

ADDITIONAL PAPERWORK & INFORMATION

Optional Paperwork Description

If you wish to provide additional paperwork to show approval processes from your local science fair, etc. you may do so here. Please describe what you are uploading and why in the text box, and upload your documentation in the next upload section.

Optional Paperwork File Upload

Task 4: Science Research Description

Tell us the basics about your project

1. Project Category

Select the category that best fits your project. Three PhD-level evaluators with expertise in the area you choose below will review your work.

- ○ Animal Sciences
- ○ Behavioral and Social Sciences
- ○ Biochemistry
- ○ Bioengineering
- ○ Cellular and Molecular Biology
- ○ Chemistry
- ○ Computer Science
- ○ Computational Biology and Bioinformatics
- ○ Earth and Planetary
- ○ Engineering
- ○ Environmental Science
- ○ Genomics
- ○ Mathematics
- ○ Medicine and Health
- ○ Materials Science
- ○ Physics
- ○ Plant Sciences
- ○ Space Science

2. Project Theme

Research submitted to Regeneron STS is often interdisciplinary. Please check any of the boxes below that describe your project. This information is primarily used for media purposes and identifying future trends in categories. Please select all that apply.

- ☐ Climate Change
- ☐ Robotics
- ☐ Artificial Intelligence
- ☐ Machine Intelligence
- ☐ _____

3. Project Title

Enter your project title. For any symbols, please write the name of the symbol in all capital letters (ALPHA, GAMMA, etc.)Otherwise, please use normal Title Case.

Full Project Title:

Short Project Title (50 characters or less):

If the title of your project requires any special symbols or formatting (such as italics) please explain here:

4. Where was the experimentation / research conducted?
Select all that apply.
- ☐ Home
- ☐ High School
- ☐ College or University
- ☐ Other Research Institution
- ☐ In the Field
- ☐ Other (please specify): _____

5. Please check all that apply to this research experience:
- ☐ Applied to and was accepted into an established research program not connected to my high school
- ☐ Enrolled in a science research class
- ☐ Participated in research at my high school after school or on weekends
- ☐ Relative, friend, or acquaintance made or helped me make an initial connection that led to my acceptance into a research setting
- ☐ Teacher or school provided contacts or connections to scientists
- ☐ Identified and contacted a scientist independent of any support
- ☐ Performed the research without mentorship, but read articles, books and magazines for guidance
- ☐ Other (please specify) _____

6. Primary Research Location

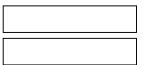Name of Research Location (institution, university, park, school, etc.)

Describe the Research Location (please include name of lab)

Was the primary research location in the United States or a US territory? ○ yes ○ no

Research Location City

Research Location State

Research Location Country
Website

7. Mentors
Please provide information on the adults, undergraduate student or higher, with whom you met and worked with in any way related to your research. You will be asked to provide their contact information in Task 11. Students may list information for up to three mentors.

	Prefix	First Name	Last Name	Institution (if different from above)	Job Title	Time spent with this mentor
Mentor #1						

8. How did you connect with your mentor(s)? (maximum 100 words)

9. How did you get the idea for your research? (maximum 200 words)

Explain the development of your research question and/or engineering goals. Was the project assigned to you?

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[                    ]
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10. What was the duration of the research? (maximum 150 words)

Explain the amount of time you spent on the research project that you have submitted, and provide the start and end date.

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[                    ]
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11. If your research was conducted as part of a larger research project or group, explain how your work is independent of this larger project. (maximum 200 words)

If there were other high school students in the group, be specific about how your work was similar to and different from other students.

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[                    ]
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12. Please attribute the support you received in each area of the research process and highlight what you claim as your own, original, unique contribution. (maximum 200 words per section)

Provide a description of what you did in sentences, more than simply stating a percentage or writing "all."

a. Developing / Initiating the purpose of the research

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b. Designing the procedures

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[                    ]
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c. Implementing the procedure (including special techniques or the use of special equipment)

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[                    ]
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d. Gathering / Recording data

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[                    ]
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e. Analyzing data

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[                    ]
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f. Formulating conclusions

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[                    ]
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13. Describe any limitations of your research. (maximum 150 words)

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[                    ]
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14. Indicate any other substantive guidance received, as well as any prior research involvement or training that helped you in conducting your own work in this project. (maximum 250 words)

15. Are you related to anyone who works in the lab or environment in which you conducted your research?

This is permitted and students are not penalized if they are related to their mentors. However, it is imperative to disclose this information.

○ Yes
○ No

If so, please describe your relationship and the relative's involvement in your project.

16. Statement of Independence

Frequently Regeneron STS applicants perform research that is similar to that of parents, mentors, relatives, friends and/or other high school students. This is expected, since science is a cumulative process, each finding built on a previous one. The influence and assistance of those around you might be reflected in your responses to the questions above, but in some cases might be difficult to articulate because their roles are a bit less defined. In order to recognize the independent research of student investigators, a clear picture of the evolution of your work and the aspects that are of your own design and execution are required. We would like to give you the opportunity to reassure the evaluation committee that while the above-mentioned influences may exist, the work you have submitted is your own and not that of a parent, mentor, relative, friend or any other person.   Failing to disclose similar or related research of which you are aware or failing to mention any person who has either closely or loosely guided you, and their relationship to you and your family, is a violation of our rules and the ethics statement you must agree to in order to submit this application, and is grounds for failure to qualify to the Regeneron STS.Select the option below that best describes your situation:

○ I certify that there are no additional people who have done research in an area of science close to mine, nor is there any additional person who has closely or loosely advised me, contributed to my research or had any influence on my work.
○ There is another person or persons I would like to mention and explain their influence or contribution.

If you checked the second box above, please write a statement in your own words explaining any research or person that has influenced your work outside of the individual tasks in the questions above. Provide as much supporting detail as possible. (maximum 200 words)

17. Intellectual Property and Viewing Your Application

☐ I certify that I have discussed this submission with the scientists with whom I worked and they do not have concerns regarding intellectual property. I give permission to Society staff to show my entire application, including my research report, to any of my mentors or recommenders.

18. Individual Research Projects

Combining individual research projects into team projects to submit to other competitions is against STS Rules. An individual project must remain so through competition season (June 2020). Please verify that you do not have plans to combine the research submitted to the Regeneron Science Talent Search with another high school student for a different competition.

○ I do not have plans to combine this research with another high school student for competition.

○ I do have plans to combine this research, thus am not eligible for Regeneron STS.

19. Research Report Guidelines

Read the Research Report Guidelines before proceeding to the next task, where you will upload your Research Report. The Research Report Guidelines document contains important information about the format of your research paper, naming convention, size limits, and more.

☐ I have read the Research Report Guidelines 2020 document
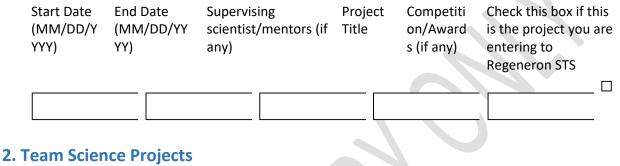
Task 5: Research Report Upload

See Research Report Guidelines within the Rules and Entry Instructions and the online application for guidance on requirements. Upload your 20-page research paper in this section.

Task 6: Previous Research

Tell us about your previous science research projects

1. Individual Science Projects (optional)

List any individual research projects (not class projects) to which you have contributed during high school. A project does not need to have been submitted to a competition to be listed. List projects in chronological order, starting with the most recent project on top. Entrants may list up to 5 projects.

Start Date (MM/DD/YYYY)	End Date (MM/DD/YYYY)	Supervising scientist/mentors (if any)	Project Title	Competition/Awards (if any)	Check this box if this is the project you are entering to Regeneron STS ☐

2. Team Science Projects

Have you ever completed research with a team member?

○ Yes
○ No

2a. Team Research Projects

Research conducted as part of a student team project is not eligible for Regeneron STS. This includes any research or portion of research regardless of whether it has been or will be submitted for competition or not. Even if you were a primary member of a team or conducted one portion of the research, it must still be considered a part of that team project. Please provide information on any team projects to which you have contributed. Entrants may list up to 5 team projects.

Start Date (MM/DD/YYYY)	End Date (MM/DD/YYYY)	Teammate Name(s)	Mentor Name(s)	Projec

2b. Clarification of Team Research (maximum 300 words)

Explain how the research you are submitting with this application is different from these team projects. Be sure to address each aspect of your research—purpose, procedure, data, and conclusions.

3. Conference Presentations, Abstract Publications, Student-Level Publications, Paid Publications, or Future Submission Plans (optional; maximum 300 words)

Please list any conferences in which you have presented your work; instances where the abstract of your research has been published; publications in student-level, non-peer reviewed, or pay-for publication journals; and future publication plans (including articles submitted to journals, but not yet published) (If any):

[   ]

4. Ph.D.-level Peer-reviewed Journal Publications

Are you listed as an author or coauthor on any scientific publications? (you may select more than one option)

- ☐ Yes
- ☐ No
- ☐ I have submitted a paper/am pending publication

Ph.D.-level Peer-reviewed Journal Publications

List the name(s) of any coauthor(s). Indicate if a coauthor is a high school student. Entrants may list up to 4 publications.

Include:
- First Author
- Other Authors
- Journal Title
- Article Title
- Issue and Page Number
- Date of Publication
- Check box if STS project

Describe your plans for future publication (optional).

If this research is the same as the project you are submitting to Regeneron STS, please indicate so below. (200 words max)

[   ]

5. Science Training Institutes, Research Progams, Summer Programs

Please list the names of programs where you have conducted research projects, science summer camps you have attended, etc. Check the box to indicate if your STS project was conducted at any of these institutions. Entrants may list up to 8 programs.

	Name of Program	City	State	Dates	Website	STS Project?
Program 1						☐

Task 7: Essay Questions

Tell us about your project, inspiration, and impact. Do not feel pressured to meet the word limit for each question.

1. Research Project "Layperson's Summary" (maximum 200 words)

Summarize your project in layperson's terms, while maintaining scientific accuracy. Your explanation should be easily understandable and include background, procedures, conclusions and relevance. This summary will aid readers, including evaluators, journalists and the public.

2. Project Inspiration (maximum 200 words)

What inspired you to conduct this research project? (What is the story behind your research topic?)

4. Project Benefits and Impact (maximum 200 words)

What benefits do you think your research will bring to the world, and/or to your field? What additional steps, and by whom, might be needed for this benefit to be realized?

3. STEM Interests (maximum 250 words)

After completing your research, how has your interest in science, engineering, and/or math been clarified? What are your other STEM-related interests besides your project?

5. Your Potential as a Scientist, Mathematician or Engineer (maximum 250 words)

Address through specific and concrete examples what characteristics you have that best demonstrate your affinity and aptitude for being a good scientist. What have you done that illustrates scientific aptitude, curiosity, inventiveness and/or initiative? How does your experience suggest future success as a scientist, mathematician or engineer? What do you plan to study in post-secondary education and what occupation do you plan to pursue? What do you hope to be doing 10 years from now?

6. Major Scientific Question (maximum 300 words)

What is a major scientific question in your field whose answer you believe will have a significant impact on the world in the next 20 years, and why? Using examples from your own experience or research, explain how you might envision addressing the question over the next 20 years.

7. "Tweet" about your project! Tell us about your project in 280 characters or less.

The Society might share this response if you are named a scholar or finalist.

Task 8: Activities, Interests and Awards

Tell us about your activities, interests and awards. Do not feel pressured to meet the word limits for essay questions.

EXTRACURRICULAR ACTIVITIES, VOLUNTEERISM & EMPLOYMENT

Tell us about your extracurricular activities, volunteer work, employment, etc. We want to know more about you, your day-to-day life, how you spend your time, and why. Please select an activity type and describe your involvement in the activity. If you do not see an exact match for your activity in the list, select "other." Please do not feel pressured to use all seven activity boxes below; tell us about your favorites.

How many activities would you like to list? Entrants may list up to 7 activities.

Activity #1

Activity Type:

- ○ Academic Club
- ○ Art
- ○ Athletics
- ○ Family Responsibilities
- ○ Foreign Exchange Program
- ○ Foreign Language
- ○ Journalism
- ○ Music (Instrumental)
- ○ Music (Vocal)
- ○ Research
- ○ Social Justice
- ○ STEM-related Club
- ○ Student Government
- ○ Speech/Debate
- ○ Theatre
- ○ Volunteer Work
- ○ Work Experience
- ○ Yearbook
- ○ Other
- ○ Scouting
- ○ Religious Duties

Name of Activity (type of sport, name of club, etc):

Your Role/Leadership Roles:

How many years have you participated in this activity?

Explain the time commitment to this activity:

Awards won/accomplishments related to this activity

Anything else you would like to share about this activity? (75 words maximum)

Summer Activities

What did you do in the last 3 summers? Tell us about any jobs, activities, research, travel, etc. (Maximum 200 words)

SCIENCE COMPETITIONS AND PROGRAMS

Have you participated in any of the following?

Select all that apply.

- ☐ Science fair at the local or regional level
- ☐ Intel International Science and Engineering Fair (Intel ISEF) Finalist
- ☐ Broadcom MASTERS Entrant, Semifinalist or Finalist
- ☐ Science training program or summer institute
- ☐ Other science competitions
- ☐ None of the above

Tell us about your Intel ISEF participation:

Year(s) of participation as a finalist

Award(s) won

Tell us about your Broadcom MASTERS participation:

Level (Entrant, Semifinalist or Finalist)

Year(s) of Broadcom MASTERS participation

Award(s) won

Tell us about your participation in other science competitions:

Include name(s) of competition(s), year(s) of participation and award(s) won. (250 words maximum)

AWARDS

List special recognitions, awards, honors and scholarships from both school and community, if any.

Include national or international honors received during your high school career not previously listed in the activities section above. (250 words maximum)

[ ]

INTERESTS

What single accomplishment are you most proud of and why? OR, Tell us about any challenges you have overcome.

(100 words maximum)

[ ]

Share a fun fact that we might otherwise not know about you.

(75 words maximum)

[ ]

Task 9: Test Scores (optional)

Sharing your standardized test scores is optional. If you choose not to share your test scores, this decision will not be held against you. If you would like to share your scores, enter them in this task, then upload evidence that supports your scores in the next task. Superscoring is permitted.

SAT Scores

	Score	Test Date (MM/DD/YYYY)
Composite		
Section Score: Evidence-based Reading and Writing		
Section Score: Math		
Cross-Test: Analysis in Science		
Cross-Test: Analysis in History/Social Studies		
Test Score: Reading		
Test Score: Writing and Language		
Test Score: Math		

SAT II

(Science, Math, Engineering, and Technology tests only) List top 4 only. Entrants may list up to 4 exams.

	Subject	Score	Test Date (MM/DD/YYYY)
SAT II Test #1			

ACT Scores

List highest score in each category on any date.

	Score	Test Date (MM/DD/YYYY)
English		
Reading		
Math		
Science		
Composite		

Advanced Placement Course Test Scores

(Science, Math, Engineering, and Technology tests first) List top 8 only. Entrants may list up to 8 exams.

	Subject	Score	Test Date (MM/DD/YYYY)
AP Test #1			

International Baccalaureate Course Test Scores

(Science, Math, Engineering, and Technology tests first) List top 8 only. Entrants may list up to 8 exams.

	Subject	Score	Test Date (MM/DD/YYYY)
IB Test #1			

US Territories: Other Tests

For students attending accredited overseas secondary schools only. If you <u>do not attend</u> school in the US and take different tests than those listed above, please report the test names and your scores here.Do not write in this box if you live in the US and/or took the tests listed above.

You will need to upload proof of the test scores you have mentioned above in Task 10 (next task). Please merge your various test score documents into one PDF document for the upload. We ask that you remove extraneous pages about how to interpret scores.

Task 10: Test Score Upload (optional)

Sharing your standardized test scores is optional. If you choose not to share your test scores, this decision will not be held against you. If you have shared your scores in Task 9, please upload evidence here. Official score reports are not required.

Task 11: Beyond the Project

Information collected in this section is confidential and will not be shared with evaluators or judges. The Society will use this information for general record keeping, and to contact your parents/guardians, teachers, principals, etc. in the event you are named a Scholar or Finalist.

STUDENT INFORMATION

Your Contact Information

Your Cell Phone Number (optional)

Your Home Phone Number

Your preferred email address for long term contact:

Your Address

Date of Birth (MM/DD/YYYY)
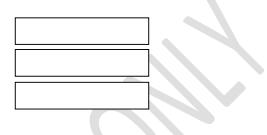
Are you Hispanic or Latino?

○ Yes
○ No

Regardless of your answer to the prior question, please indicate how you identify yourself (select all that apply).

☐ American Indian or Alaska Native
☐ Asian or Asian American
☐ Black or African American
☐ Native Hawaiian or other Pacific Islander
☐ White
☐ Other _____

T-shirt Size

Explain your ability to speak, read, or write languages other than English (optional)

Your Name for Public Materials

Please tell us how you would like your name to appear in public materials relating to the Regeneron Science Talent Search (official bio if selected as a finalist, press releases, etc). We collected your legal name in Task 1, but understand that you might prefer a different variation of your name to be used for public materials.

First Name for Public Materials

Middle Name for Public Materials (optional)

Last Name for Public Materials

FAMILY INFORMATION
Do you have any siblings? (optional)

○ Yes
○ No

Please list the name(s) and age(s) of your sibling(s):

Are any of your relatives former top 40 finalists or former top 300 semifinalists/scholars/honors group in the Science Talent Search (under Regeneron, Intel or Westinghouse sponsorship?)

○ Yes
○ No
○ Unsure

Please list the name(s) and year(s) of their participation in the Science Talent Search:

Tell us more about Parent/Guardian #1:
Question repeats for Parent/Guardian #2.
Name
Email Address

Do you share a primary mailing address with this Parent/Guardian?

○ Yes
○ No

Parent/Guardian #1's Address

Marital Status in Relation to Parent/Guardian #2 named below (optional)

SCHOOL INFORMATION

Please provide additional information about your high school principal, and the teacher most closely associated with your application.

The teacher listed here will receive prizes if you are named a finalist.

Principal First Name

Principal Last Name

Principal Email Address

Teacher (at your HS) First Name

Teacher (at your HS) Last Name

Teacher (at your HS) Email Address

High School Newspaper

Please complete this section if your school has a newspaper or newsletter. We will notify this source if you are named a scholar or finalist so that your school community can celebrate this achievement.

Name of High School Newspaper

Email Contact at High School Newspaper

PROJECT INFORMATION

Mentor Information

In a previous task, you shared the name(s) of your scientific mentors for your STS project. Please provide their contact information:**if the names are not appearing correctly, please leave the mentor names blank, reference Task 4 and enter the contact information for the mentor(s) you listed in slots 1, 2, and/or 3.

Question repeats for Mentors 2 & 3.

Mentor/Supervisor Name 1

Phone Number of Mentor/Supervising Adult 1

Email Address of Mentor/Supervising Adult 1

Do you have any patents related to your STS research?

Select all that apply

- ☐ I have at least one patent.
- ☐ I have a patent pending.
- ☐ I am in the process of applying for a patent.
- ☐ I plan to apply for a patent in the future.

- ☐ I do not have, nor do I plan to apply for any patents related to my research.
- ☐ I do not have a patent for my STS research, but I do have a patent or patent pending for a different project.

Do you have any patents unrelated to your STS research?

Select all that apply
- ☐ I have at least one patent.
- ☐ I have a patent pending.
- ☐ I am in the process of applying for a patent.
- ☐ I plan to apply for a patent in the future.
- ☐ I do not have, nor do I plan to apply for any patents related to my research.

Who has been the most positive influence on your scientific endeavors?

We will send a letter to this person to tell them that you chose them and to thank them for encouraging and assisting you.

Most Influential Person Prefix (Dr., Ms., etc.)

Most Influential Person First Name

Most Influential Person Last Name

Most Influential Person Address

Most Influential Person E-mail Address

How do you know this person? (maximum 75 words)

Do you intend to major in a STEM-related field in college?

- ○ Yes
- ○ No
- ○ Unsure

Task 12: Optional Research Study (optional)

Entrants may choose to participate in a longitudinal research study about STEM interests.