

2023 - 2024 Handbook

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The Dallas Regional Science and Engineering Fair (DRSEF) is a non-profit organization that holds an annual science fair for 6th - 12th grade students at public, charter, private and home schools in Texas Education Agency Region 10. DRSEF is affiliated with the Intel International Science and Engineering Fair. Students begin by entering the fair at their local school, then the top projects at each school advance to district fairs and then the regional fair. Winning projects from DRSEF can then advance to state and international competitions.

The Junior Division of DRSEF is a competitive event for 6th-8th graders. The Senior Division is a competitive event for 9th-12th graders. All participating students are required to register their projects through the STEM Wizard registration system and follow all the Regeneron International Science and Engineering Fair (ISEF) Rules with the exception that instead of the ISEF forms, Junior Division will submit the Safety and Consent Form for Texas Middle School Science Fair Students. All forms can be found in STEM Wizard.

Beal Bank awards cash prizes for 1st – 3rd place in each category judged, with 4th place awarded for larger categories. Junior Division prizes of up to \$175 are awarded along with Senior Division prizes up to \$300. Honorable Mentions are also awarded during Category judging. 1st and 2nd place winners in Senior Division and 1st place and 2nd place winners in Junior Division from Category Judging advance to the Texas Science and Engineering Fair. The top ten percent of Junior Division are invited to enter Thermo Fisher Scientific Junior Innovators Challenge, an international science fair for Middle School students. Invitations are issued after the fair. Winners and runners-up from the Grand Prize round in the Senior Division advance to the Regeneron International Science and Engineering Fair, with attendance sponsored by Beal Bank. Students may also be eligible to enter competitions such as Regeneron Science Talent Search, a science competition for high school seniors affiliated with ISEF.

#### **Important Dates:**

February 2, 2024: all student projects must be complete & submitted in STEM Wizard

February 17, 2024: Dallas Regional Science and Engineering Fair

March 22-23, 2024: Texas Science and Engineering Fair

May 11-17, 2024: Regeneron International Science and Engineering Fair

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#### What's Notable for 2024

We have a new registration system, STEM Wizard. We will have training on STEM Wizard in September.

For the Junior Division, we have consolidated the ISEF paperwork into one form. Middle school students still need to follow ISEF rules, but they will only have one form that replaces the ISEF forms. Additional documentation may be necessary depending on the project.

No objects other than boards, binders, laptops/tablets and ISEF paperwork requirements are allowed in the exhibit hall. This means demonstration items are not allowed.

Once again, we will be in person at Centennial Hall at Fair Park. Students will need a physical display board. However, a virtual display board will still be required for judges to preview the projects. Students should use the project board template for their virtual display boards.

On or before February 2, 2024, Schools must make sure all students advancing to the regional fair have met all milestones due in STEM Wizard. Then follow the directions to complete your school registration. More information on STEM Wizard training will be provided.

The number of projects allowed by each school is 2% of the total student population.

Entry fees of \$15 per student (not per project) are due by February 17, 2024. Payment is accepted by check or online. A formal invoice may be requested from DRSEF@smu.edu.

Make checks payable to DRSEF, include your school's name, and mail to:

Dallas Regional Science and Engineering Fair

Southern Methodist University

PO Box 750220

Dallas, TX 75275-0220

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#### STEM Wizard

All Junior and Senior Division school and student registration will be done through STEM Wizard. Paper forms will not be accepted. Student STEM Wizard accounts should be created, and the research plan approved by the teacher, SRC (if required), and IRB (if required) prior to the student beginning their research. STEM Wizard has a rules wizard embedded in it that will determine what forms students need to fill out for their project. It is up to the student and teacher to make sure that all paperwork is filled out properly including dates (start date must be after approval signatures). Students must have parental approval in STEM Wizard. If a student fails to meet a deadline, their account may be deactivated, and they will not be able to compete.

STEM Wizard Training Materials: Click here for student and teacher guide.

#### **Registration Steps**

If your school is not registered in STEM Wizard, please have your school fair administrator email us: drsef@smu.edu

Once your school is registered in STEM Wizard, all teachers with participating students need to register.

Once all teachers are registered, begin student registration.

All registration milestones with due dates prior to the deadline of February 2, 2024, must be completed by the deadline:

- All students advancing to the regional fair must have uploaded all the paperwork and project materials in STEM Wizard by the deadline.
- After teachers confirm which students are advancing, students then confirm their categories and registration in STEM Wizard.
- All registration steps MUST BE COMPLETED by the deadline, or the student will be deactivated in STEM Wizard and unable to compete.

No late entries will be allowed.

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## **Rules for Participating in DRSEF**

#### **Ethics Statement**

Scientific fraud and misconduct are not condoned at any level of research or competition. This includes plagiarism, forgery, use or presentation of other researcher's work as one's own and fabrication of data. Fraudulent projects will fail to qualify for competition in affiliated fairs and ISEF. DRSEF reserves the right to revoke recognition of a project subsequently found to have been fraudulent.

#### Eligibility

- 1. Any student in grades 6-12 or equivalent, enrolled in a public, private, parochial, or home school in the region covered by DRSEF is eligible to participate in DRSEF. 6th-8th graders compete in the Junior Division, and 9th-12th graders compete in the Senior Division.
- 2. If there is a science fair program in a school, district, or other entity that the student falls under, then only students in that program that are advanced by the program may participate in DRSEF.
- 3. Students may not have reached 19 years of age, on or before May 1st of the event year.
- 4. Students are not permitted to simultaneously enter another regional ISEF-affiliated science fair.
- 5. Team projects may have a maximum of three team members. Each team is encouraged to appoint a team leader to coordinate the work and act as spokesperson. However, each member of the team should be able to serve as spokesperson, be fully involved with the project, and must be familiar with all aspects of the project. The final work should reflect the coordinated efforts of all team members and will be evaluated using similar rules and judging criteria as individual projects. Teams must be set up prior to the start of the project (including documentation). Team members may not be added or removed once the project begins. A mixed team with members from different schools or geographic regions may compete at DRSEF (one team member must be from the DRSEF region), but not at multiple fairs. The team can only compete under one of the schools and will need permission from both schools to compete.
- 6. Projects that are demonstrations, library research or informational projects, explanation models or kit building are not appropriate for DRSEF.
- 7. A research project may be a part of a larger study performed by professional scientists, but the project presented by the student must be only their own portion of the complete study (See Ethics Statement above).

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## **General Requirements**

- 1. All students competing in DRSEF must adhere to all of the rules as set forth in this document and by ISEF. In the case of a conflict between the ISEF and DRSEF rules, DRSEF rules supersede ISEF rules.
- 2. All projects must adhere to the Ethics Statement above.
- 3. It is the responsibility of the student researcher(s) and the Adult Sponsor/Teacher to evaluate the project to determine if the research will require additional forms and/or review and approval prior to experimentation, especially projects that include human participants, vertebrate animals, or potentially hazardous biological agents.
- 4. Projects must adhere to local, state and U.S. Federal laws, regulations and permitting conditions. In addition, projects conducted outside the U.S. must also adhere to the laws of the country and jurisdiction in which the project was performed.
- 5. The use of non-animal research methods and the use of alternatives to animal research are strongly encouraged and must be explored before conducting a vertebrate animal project.
- 6. Introduction or disposal of non-native and/or invasive species (e.g. insects, plants, invertebrates, vertebrates), pathogens, toxic chemicals or foreign substances into the environment is prohibited. It is recommended that students reference their local, state or national regulations and quarantine lists.

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# **Project Categories**

Many projects could easily fit into multiple categories. We highly recommend that you review the entire listing of the categories before carefully choosing the category that most accurately describes your project.

#### **Animal Sciences (ANIM)**

- Agricultural Animal Science
- Animal Behavior
- Cellular Studies
- Development
- Ecology
- Genetics
- Nutrition and Growth
- Physiology
- Systematics & Evolution

#### **Behavioral and Social Sciences (BEHA)**

- Clinical and Development Psychology
- Cognitive Psychology
- Neuroscience
- Physiological Psychology
- Social Psychology

#### **Biochemistry (BCHM)**

- Analytical Biochemistry
- General Biochemistry
- Medicinal Biochemistry
- Structural Biochemistry

#### <u>Biomedical and Health Sciences/ Biomedical</u> <u>Engineering (BMED)</u>

- Biomedical Engineering
- Cell, Organ, and Systems Physiology
- Genomics and Genetics
- Nutrition
- Computational Biomodeling
- Computational Biology
- Computer Neuroscience

#### Cellular and Molecular Biology (CELL)

- Cell Physiology
- Cellular Immunology
- Genetics
- Molecular Biology
- Neurobiology

#### Chemistry (CHEM)

- Analytical Chemistry
- Computational Chemistry
- Environmental Chemistry
- Organic/Inorganic chemistry
- Materials Chemistry
- Physical Chemistry

#### Earth and Environmental Sciences (EAEV)

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

#### **Embedded Systems (EBED)**

- System Hardware
- Circuits
- Internet of Things
- Microcontrollers
- Networking/Communications
- Optics
- Sensors
- Signal Processing
- Robotic Mechanical Design

# Energy: Sustainable Materials and Design (EGSD)

- Biological Process and Design
- Solar Process, Materials, and Design
- Energy Storage
- Wind and Water Movement Power Generation
- Hydrogen Generation and Storage
- Thermal Generation and Design
- Triboelectricity and Electrolysis

# Engineering Technology: Statics and Dynamics (ETSD)

- Aerospace and Aeronautical Engineering
- Civil Engineering
- Computational Mechanics
- Control Theory
- Electrical Engineering
- Ground Vehicle Systems
- Industrial Engineering-Processing
- Mechanical Engineering
- Naval Systems
- Structural Engineering

#### **Environmental Engineering (ENEV)**

- Bioremediation
- Land Reclamation
- Pollution Control
- Recycling and Waste Management
- Water Resources Management

#### **Materials Science (MATS)**

- Biomaterials
- Ceramic and Glasses
- Composite Materials
- Computation and Theory
- Electronic, Optical, and Magnetic Materials
- Nanomaterials
- Polymers

#### Mathematics (MATH)

- Algebra
- Combinatorics, Graph Theory, and Game Theory
- Geometry and Topology
- Mathematical Analysis
- Number Theory
- Probability and Statistics

#### Microbiology (MCRO)

- Antimicrobials and Antibiotics
- Applied Microbiology
- Bacteriology
- Environmental Microbiology
- Microbial Genetics
- Virology

#### Physics and Astronomy (PHYS)

- Atomic, Molecular, and Optical Physics
- Astronomy and Cosmology
- Biological Physics
- Condensed Matter and Materials
- Machania
- Nuclear and Particle Physics
- Theoretical, Computational, and Quantum Physics

#### Plant Sciences (PLNT)

- Agriculture and Agronomy
- Ecology
- Genetics and Breeding
- Growth and Development
- Pathology
- Plant Physiology
- Systematics and Evolution

#### Systems Software (SOFT)

- Algorithms
- Cybersecurity
- Databases
- Human/Machine Interface
- Languages and Operating Systems
- Mobile Apps
- Robotics Artificial
   Intelligence/Cognitive Systems
- Machine Learning

# <u>Translational Medical Sciences (aka Disease Studies) (TMED)</u>

- Disease Detection and Diagnosis
- Disease Prevention
- Disease Trevention
   Disease Treatment and Therapies
- Drug Identification and TestingPre-Clinical Studies

## **Project Display**

#### Maximum Size of Project

- Depth (front to back):
- 30 inches or 76 cm
- Width (side to side):
- 48 inches or 122 cm
- Height (floor to top):
- 108 inches or 274 cm

Please be aware when ordering posters that the mechanism that supports the poster should conform to the maximum size limitations stated above.

All project materials and support mechanisms must fit within the project dimensions.

At DRSEF, fair-provided tables will not exceed a height of 36 inches (91 centimeters). Remember to take the table height into account when determining the height of the project.

#### Display & Safety

No objects other than boards, binders, laptops/tablets and ISEF paperwork requirements are allowed in the exhibit hall (new for 2024).

Board displays must follow all ISEF rules and may not contain any of the items listed below.

The following items are prohibited in the exhibit hall:

- Organisms; living, dead or preserved (plants or animals)
- Human/animal parts or body fluids (for example: blood, urine)
- Human or animal food in any form, including residues
- Bacteria or mold cultures
- Chemicals and liquids including water
- Poisons, drugs, controlled or hazardous substances
- Sharp items (for example: syringes, needles, pipettes, knives)
- Glass or glass objects
- Pressurized tanks or containers
- Batteries with open top cells (so that battery acid can be seen)
- Dirt/soil, rock/gravel, sand, waste product, etc.
- Photographs or drawings of animals or people in surgical techniques, dissections, or necropsies

Items deemed potentially hazardous by D&S

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## **Display Content for Projects Conducted at a Research Institution**

The display must reflect only the work conducted by the finalist. Minimal reference to mentor's or other researcher's work must only reflect background information or be used to clarify differences between finalist's and others' work. Do not include logos or the name of the research institution on the board.

Photograph/Image Display Requirements

Display of photographs of people other than that of the student researcher must have a photo release signed by the subject, and if under 18 years of age, also by the guardian of the subject.

Sample consent text: "I consent to the use of visual images (photos, videos, etc.) involving my participation/my child's participation in this research." (These forms must be available upon request, but shall not be displayed.

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## **Roles & Responsibilities of Students & Adults**

#### The Student Researcher(s)

The student researcher is responsible for all aspects of the research project including enlisting the aid of any required supervisory adults (Adult Sponsor, Qualified Scientist, etc.), obtaining necessary approvals (SRC, IRB, etc.), following the Rules & Guidelines of DRSEF, and performing the experimentation, engineering, data analysis, etc. Scientific fraud and misconduct are not condoned at any level of research or competition. This includes plagiarism, forgery, use or presentation of other researcher's work as one's own, and fabrication of data. Fraudulent projects will fail to qualify for competition. DRSEF reserves the right to revoke recognition of a project subsequently found to have been fraudulent.

#### The Adult Sponsor

An Adult Sponsor may be a teacher (preferred), parent, professor, and/or other professional scientist in whose lab the student is working. This individual must have a solid background in science and should have close contact with the student during the course of the project. The Adult Sponsor is responsible for ensuring the student's research is eligible for entry in DRSEF.

#### **Qualified Scientist**

A Qualified Scientist should have earned a doctoral/ professional degree in a scientific discipline that relates to the student's area of research. Alternatively, the SRC may consider an individual with extensive experience and expertise in the student's area of research as a Qualified Scientist. The Qualified Scientist must be thoroughly familiar with local, state, and federal regulations that govern the student's area of research.

#### **Designated Supervisor**

The Designated Supervisor is an adult who is directly responsible for overseeing student experimentation. The Designated Supervisor need not have an advanced degree, but must be thoroughly familiar with the student's project, and must be trained in the student's area of research. The Adult Sponsor may act as the Designated Supervisor.

#### Scientific Review Committee (SRC)

The DRSEF Scientific Review Committee (SRC) is a group of qualified individuals that is responsible for evaluation of student research, certifications, research plans and exhibits for compliance with the rules, applicable laws and regulations at each level of science fair competition. Most proposed research projects involving vertebrate animals and/or potentially hazardous biological agents must be reviewed and approved BEFORE experimentation. Local or regional SRC prior review is not required for human studies previously reviewed and approved by a properly constituted IRB. ALL projects, including those

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previously reviewed and approved by an IRB must be reviewed and approved by the SRC after experimentation and before competition in an Affiliated Fair. Projects which were conducted at a Regulated Research Institution (not home, high school or field) and which were reviewed and approved by the proper institutional board before experimentation, must also be approved by the Affiliated Fair SRC. An SRC must consist of a minimum of three persons, including the following: a biomedical scientist with an earned graduate degree, an educator, and at least one additional member. To avoid conflict of interest, no Adult Sponsor, parent or other relative of the student, the Qualified Scientist, or Designated Supervisor who oversees the project may serve on the SRC reviewing that project.

#### Institutional Review Board (IRB)

An Institutional Review Board (IRB), is a committee that must evaluate the potential physical and/or psychological risk of research involving humans. All proposed human research must be reviewed and approved by an IRB before experimentation begins. This includes review of any surveys or questionnaires to be used in a project. Federal regulations require local community involvement. Therefore, it is advisable that an IRB be established at the school level to evaluate human research projects. An IRB must consist of a minimum of three members including the following: an educator, a school administrator (preferably principal or vice principal), and a medical or mental health professional. To avoid conflict of interest, no Adult Sponsor, parent or other relative of the student, the Qualified Scientist, or Designated Supervisor who oversees the project may serve on the IRB reviewing that project.

## Message from the DRSEF Scientific Review Committee

Prior to attempting to complete any documentation for entry to DRSEF, we strongly recommend that students communicate with mentors and/or adult sponsors to firmly grasp the extent of the research and the necessary documentation that DRSEF requires for the student's project.

To help guide you with the appropriate forms, before you start your research, we strongly suggest you use the Rules Wizard in your DRSEF STEM Wizard account or at <a href="https://ruleswizard.societyforscience.org/">https://ruleswizard.societyforscience.org/</a>

## **Top DRSEF Paperwork Problems to Avoid:**

- 1. Research plan lacks sufficient details and fails to provide thorough information to support the documentation provided. A properly written research plan must include:
  - a. a detailed list of materials including amounts. Include where you will purchase any bacteria or other potentially hazardous biological agents. If you will use E. coli k-12, make sure to list that as the material.

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- b. a detailed research plan projects which cannot be assessed because the research plan is not sufficient will fail to qualify.
- c. clear details about what the student will do when working in a research institution or as part of a larger project. The research plan must identify the student and mentor role in the project.
- d. any additional documentation needed to understand the project including any surveys or tests for human subjects, last year's paperwork for continuation studies, etc.

#### 2. Missing or incorrect paperwork (ISEF Forms and Rules Quick Reference (Senior Division))

- a. The project must include all required forms with the appropriate signatures needed for the specific project.
- b. Parents, relatives, the adult sponsor (teacher), qualified scientist, or designated supervisor of the student may not sign as SRC or IRB members to avoid a conflict of interest.
- c. Approval of projects must take place prior to experimentation as noted by approval signatures predating the start date.

#### 3. Human Participants

- a. The student researcher is a human participant in their project if they are the subject of the experiment or a variable in the experiment.
  - i. This requires Form 4 for the Senior Division.
  - ii. For the Junior Division, signatures from the Science Teacher, School Administrator, AND a Psychologist, Medical Doctor, or Registered Nurse are required on the Safety and Consent Form. The only exception is if the researcher OR the adult sponsor is testing student designed software.
- b. If the student works at a regulated research institution, approval for the project needs to be from the institutional IRB, not from the school IRB. This is for ALL divisions.

#### 4. Vertebrate Animals

- a. Students are not allowed to cause pain, distress, or death to animals in their study.
- b. If students work at a regulated research institution, they will need to submit the IACUC approval for the project with a letter from the IACUC stating the student was trained and allowed to work on the study.
- c. Tissue analysis projects are identified as vertebrate animal projects. If the student never comes in contact with live animals and only uses vertebrate animal tissues collected by someone

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else for the study, this is a tissue study (forms 6A and 6B for the Senior Division, requires signatures from the Science Teacher AND a Biomedical/Biological Scientist for Junior Division)

#### 5. Potentially hazardous biological agents

- a. Bacteria, mold, or other microorganisms can NOT be done at home. This is an automatic disqualification.
- b. Microorganisms must be grown in the appropriate BSL setting under supervision following standard laboratory protocols.
- c. Students are only allowed to work with BSL-1 or BSL-2 organisms.
- d. Unknown organisms cultured from the environment can be treated as BSL-1 only if the petri dishes are sealed shut and never reopened prior to proper disposal.

#### 6. Regulated Research Institution or Industrial Setting

- a. Form 1C (Senior Division) must be filled out and signed by the person who approved the student to work in their lab or business such as the person at HEB that gives the person the right to collect samples there or the research lab supervisor at the university where the person worked. It should NOT be filled out by the parent or teacher.
- b. For the Junior Division, any student working at a business or research institution will need a document from the person who gave them permission to work at the location (NOT the parent or teacher). Form 1C may be used for this as well.

#### 7. Missing Risk Assessment Form 3 (Senior Division only)

- a. Must be completed for projects that involve chemicals, equipment, or other potential hazards.
- b. Must be completed for any project involving human testing of student-designed inventions, prototypes, or consumer products.
- c. Often missing, and often incomplete without description of safety precautions taken.

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# Sample Junior Division Form, page 1 of 2

## Safety and Consent Form Texas Middle School Science Fair Students

Student and Project In	formation			
Team Project:	# of Participants:	Grade	District	
1			School	
2	<del></del>		Teacher Name	
3			Teacher Email	
Project Title:				
BEFORE Experimentat	ion Begins – Project Safety C	oncerns and Pre-Ap	proval Signatures	
your project. Some projects may be apply only the science teacher sig Human Test Subjects (Example)	ne subject to multiple restrictions. If an mature is required. <u>Before</u> beginning of ple: surveys, taste tests, play a game or into	ny of these restrictions a experimentation, you wi eract with another human ir n a Science Teacher, Sch tudent researcher partic man subjects involved in	ool Administrator, AND a Boologist, Medical Doctor or ipating in the experime of the project, the strong and the project, the strong and the project, the strong and the project of the pr	
Required Signatures: Science Tea to use must be attached.	cher, School Administrator, AND a Ps	ychologist, Medical Doct	or, or Resi be the strong the surveys or test you intend	
Registered Nurse to make sure your research is safe. This includes the student researcher participating in the experiment. Still the participants and written parental consent from each of the participants and written parental consent for students under 18 years old if required.  Required Signatures: Science Teacher, School Administrator, AND a Psychologist, Medical Doctor, or Reg. the student we written consent from each of the participants and written parental consent for students under 18 years old if required.  Required Signatures: Science Teacher, School Administrator, AND a Psychologist, Medical Doctor, or Reg. the student we written consent from each of the participants and written parental consent for students under 18 years old if required.  Required Signatures: Science Teacher, School Administrator, AND a Psychologist, Medical Doctor, or Reg. the students will be surveys or test you intend to use must be attached.  Non-Human Vertebrate Animals (Example: fish, rats, rabbits, dogs,, cats etc.)  Experiments involving laboratory animals or pets (fish, rats, mice, hamsters, gerbils, rabbit to students are prohibited. Experiments designed to dill vertebrate animals are not permit since the students of supplemental nutritional studies involving pets or livestod. Behavioral studies or supplemental nutritional studies involving pets or livestod. Required Signatures: Science Teacher AND a Veterinarian or other Biomedical/Biological Science.				
☐ Potentially Hazardous Biological Agents (Bacteria, Mold, Fungi, Viruses, Parasites, Recombinant DNA (rDNA), Human or Animal fresh tissues, blood or body fluids, etc.)  All Biosafety Level 1 projects can be performed in a school laboratory. BACTERIA MAY NOT BE GROWN AT HOME. Standard microbiological practices must be used and all hazardous agents must be properly disposed of at the end of experimentation. The experiment must be supervised by a qualified scientist or a trained designated supervisor.  Required Signatures: Science Teacher AND a Biomedical/Biological Scientist				
Students must adhere to all federa designated supervisor may a stude	mple: Over the counter or prescription drug al, state and local laws when acquiring ent use federally controlled or experin cher AND a Designated Supervisor or	and handling controlled nental substances for exp		
Hazardous Chemicals, Substances, Activities, or Devices (Chemicals, firearms, power tools, welders, lasers, radioactive substances, radiation) Students must adhere to federal and state regulations governing hazardous substances or devices. An adult must directly supervise experiments. Students working with hazardous substances or device used in the research.  Required Signatures: Science Teacher AND a Designated Supervisor or Qualified Scientist (the adult monitoring the student)				
Projects Involving Human (may require add'l paperwork)	Test Subjects	Safety APPRO Scientist, Veterin	VAL — Psychologist, Doctor or Nurse, Biomedical/Biologist arian	
Consent forms are required Parental consent forms required under 18.		Name:	Phone:	
Consent forms are not required minimal risk.	ired. The project involves	Institution/Posi		
School Administrator APPI (required for ALL projects with		Signature/Date	:	
I have reviewed and approved prior to experimentation.	this student's research plan	Institution/Posi	Phone: tion:	
School Administrator Signatur	e Date	Signature/Date		

# **Sample Junior Division Form, page 2**

Student Name(s):		
Project Title:		
Supervisor or Qualified Scientist:		
	working on the project. This may be a par	ent or guardian, a teacher, or a laboratory supervisor.
, the Designated Supervisor, certify that:		
I have read the student's plan and un-	derstand all safety requirements.	
<ul> <li>I have been trained in the techniques</li> </ul>	to be used by this student prior to the sta	art of experimentation.
<ul> <li>I will provide direct supervision and to</li> </ul>	ake responsibility for the safety of my stu-	dent(s) and any possible participants.
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	•	and *
Designated Supervisor's Name	Email or p	ohomo out a dent
Designated Supervisor's Name	Email or p	mone study
		be fire the ation
iignature	Date	ist beore ente
		is me BEF orime
eacher APPROVAL (required for ALL project	ts):	phone  ph
( o ( o ( o ( o ( o ( o ( o ( o ( o ( o		sill ains
have reviewed and approved this student's res	search plan prior to experimentation	it will comply with all the experimental rul
f the Texas Science & Engineering Fair.	11	
	2000	100 mm 1
eacher Signature	Date	Phone
Research Location:		
If YES, submit your research plan and abstract	from last year and explain how this year's	s project is different.
Student & Parent/Guardian Signati	ures:	elow. De filled Out, and nust be filled out, and nust
f this is a team project, each team member an	nd member parent/guardian must sign be	elow. De life the studes, must be the the studes, must be the incentation. The desired anned procedure. Segins on subjects, last year's paperwork, permission
tudents - I certify the following:		Just be ORE Dente
My science project complies with all the ex	xperimental rules of the Science Fai	H. BE. Still.
I have attached a written Research Plan fo	r my project, indicating all materia	ned etto anned procedure.
I have attached any additional paperwork	required for review (surveys and/	an subjects, last year's paperwork, permission
work at business, etc.)		nee /
I will respect other projects and property.		
I will treat all fellow participants, judges, v		
I understand any violation of the above co	uid result in removal from the competitio	n.
arents - I have read the agreements above and	d understand the risks and possible dange	ers involved in the project plan. I consent to my child
articipating in this project and I authorize my o	child to create an online account to enter	necessary information for use with their science fair
roject.		
gnature:	Signature Parent/Guardian:	Date
•	- green - I work out aid!!	
ignature:	Signature Parent/Guardian:	Date
(10.30 tilk)		

# **Sample Senior Division Forms (ISEF)**

Checklist for Adult Sponsor (1)

Student Checklist (IA)

Research Plan/Project Summary Instructions

Approval Form (IB)

Regulated Research Institutional/Industrial Setting Form (IC) - 2 pages

**Qualified Scientist Form (2)** 

Risk Assessment Form (3)

Human Participants Form (4)

**Human Informed Consent Form** 

Vertebrate Animal Form (5A)

Vertebrate Animal Form (5B)

Potentially Hazardous Biological Agents Risk Assessment Form (6A)

Human and Vertebrate Animal Tissue Form (6B)

Continuation/Research Progression Projects Form (7)

# Which Forms Require Signatures and Who Can Sign Them

This <u>document</u> can be used to determine who can sign each ISEF Form. The second tab can be filled out by the teacher to show who is on the school SRC and IRB.

## **Checklist for Adult Sponsor (1)**

This completed form is required for ALL projects.

To be completed by the Adult Sponsor in collaboration with the student researcher(s): Student's Name(s): Project Title: Fit as much of the title as I have reviewed the ISEF dines, including the science fair ethics statement. possible hecklist (1A) and Research Plan/Project Summary. I have reviewed the studen I have worked with the student and we have ssible risks involved in the project. res prior approval by an SRC, IRB, IACUC or IBC: The project involves one or more of the following and Humans Potentially Hazardous Biological Agents Vertebrate Animals Microorganisms rDNA Items to be completed for ALL PROJECTS Adult Sponsor Checklist (1) Research Plan/Project Summary Student Checklist (1A) Approval Form (1B) Regulated Research Institutional/Industrial Setting Form (1C) (when applicable; after completed experiment) Continuation/Research Progression Form (7) (when applicable) Additional forms required if the project includes the use of one or more of the following (check all that apply): Humans, including student designed inventions/prototypes. (Requires prior approval by an Institutional Review Board (IRB); see full text of the rules.) Human Participants Form (4) or appropriate Institutional IRB documentation Sample of Informed Consent Form (when applicable and/or required by the IRB) Only check boxes that are Qualified Scientist Form (2) (when applicable and/or required by the IRB) appropriate to your research Vertebrate Animals (Requires prior approval, see full text of the rules.) Vertebrate Animal Form (5A)-for projects conducted in a school/home/field research, ite (SRC prior approval required Vertebrate Animal Form (5B)-for projects conducted at a Regulated Research Institution. (Institutional Animal Care and Use Committee (IACUC) approval required prior experimentation.) Qualified Scientist Form (2) (Required for all vertebrate animal projects at a regulated research site or when applicable) Potentially Hazardous Biological Agents (Requires prior approval by SRC, IACUC or IBC, see full text of the rules.) Potentially Hazardous Biological Agents Risk Assessment Form (6A) Human and Vertebrate Animal Tissue Form (6B) to be completed in addition to Form 6A when project involves the use of fresh or frozen tissue, primary cell cultures, blood, blood products and body fluids. Qualified Scientist Form (2) (when applicable) The following are exempt from prior review but require a Risk Assessment Form 3: projects involving protists, archae and similar microorganisms, for projects using manure for composting, fuel production or other non-culturing experiments, projects using color change coliform water test kits, microbial fuel cells, and projects involving decomposing vertebrate organisms. This must be dated Ber ORE Hazardous Chemicals, Activities and Devices (No SRC prior approval required, see full text of the rules.) Risk Assessment Form (3) the "Actual Start Date" on Qualified Scientist Form (2) (required for involving DEA-controlled substances or when applicable) Other Risk Assessment Form (3) I attest to the informati e and that I have read and agree to abide by the scien form 1A Adult Sponsor's Printed Name Date of Review (mm/dd/yy) Signature Phone Email

# **Student Checklist (IA)**

Student Ch This form is require	
a. Student/Team Leader:	Grade:
Email:	Phone:
b. Team Member:	c. Team Member:
Title of Project:  Fit as much of the title as possible	
School:	School Phone:
School Address:  This should be the	Phone/Email:  Phone/Email:  If the student has project the student his/her project continued his
Adult Sponsor: teacher	Phone/Email:
Does this project need SR RB/IACUC or other pre-	Phone/Email:  If the student has project continued his/her project con
Is this a continuation/progression from a previous years.	ear? Yes No Current care
b. Explain how this project is new and different from Continuation/Research Progression Form (7)  This year's experimentation/data collection:  This stude after the continuation of the c	previous years that the should be the date that the should be the date that the should be the date that the data, and started collecting data, are started collecting data.
Actual Start Date: (mm/dd/yy)	En te: (mm/dd/yy)
Where will you conduct your experimentation? (chec ☐ Research Institution ☐ School ☐ Field	ck all that apply)  Home Dther:
Source of Data:	NOTE this <b>NEW</b> field
☐ Collected self/mentor ☐ Other Describe/ur	
List the name and address of all non-home and non virtually or on-site:	out if appropriate of there of the state of
ame ddress:	
nail	
Complete a Research Plan/Project Summary follow and attach to this form.	
. An abstract is required for all projects after experi	mentation.

## **Research Plan/Project Summary Instructions**

### Research Plan/Project Summary Instructions

A complete Research Plan/Project Summary is required for ALL projects and must accompany Student Checklist (1A).

- · All projects must have a Research Plan/Project Summary
  - a. The Research Plan is to be written prior to experimentation following the instructions below to detail the rationale, research question(s), methodology, and risk assessment of the proposed research.
  - b. If changes are made during the research, such changes can be added to the original research plan as an addendum, recognizing that some changes may require returning to the IRB or SRC for appropriate review and approvals. If no additional approvals are required, this addendum serves as a project summary to explain research that was conducted.
  - c. If no changes are made from the original research plan, no project summary is required.
  - d. Some studies, such as an engineering design or mathematics projects, will be less detailed in the initial project plan and will change through the course of research. If such changes occur, a project summary that explains what was done is required and can be appended to the original research plan.
- · The Research Plan/Project Summary should include the following:
  - RATIONALE: Include a brief synopsis of the background that supports your research problem and explain why this research is
    important and if applicable, explain any societal impact of your research.
  - b. RESEARCH QUESTION(S), HYPOTHESIS(ES), ENGINEERING GOAL(S), EXPECTED OUTCOMES: How is this based on the rationale described above?
  - c. Describe the following in detail:
    - Procedures: Detail all procedures and experimental design including methods for data collection, and when applicable, the source of data used. Describe only your project. Do not include work done by mentor or others. If you will use published surveys, questionnaires or tests, describe how you obtained these, including required permission if applicable.
    - · Risk and Safety: Identify any potential risks and safety precaution
    - Data Analysis: Describe the procedures you will use to analyze the
  - d. BIBLIOGRAPHY: List major references (e.g. science journal articles, If you plan to use vertebrate animals, one of these references must be the science of the scienc

Items 1–4 below are subject-specific guidelines for additional items to be in applicable.

#### 1. Human participants research:

- Participants: Describe age range, gender, racial/ethnic composition pregnant women, prisoners, mentally disabled or economically disa
- b. Recruitment: Where will you find your participants? How will they be
- c. Methods: What will participants be asked to do? Will you use any sur did you obtain? Did it require permissions? If so, explain. What is the
- d. Risk Assessment: What are the risks or potential discomforts (physic participants? How will you minimize risks? List any benefits to societ
- e. Protection of Privacy: Will identifiable information (e.g., names, tele Will data be confidential/anonymous? If anonymous, describe how t are in place for safeguarding confidentiality? Where will data be stor the data after the study?
- f. Informed Consent Process: Describe how you will inform participan do, that their participation is voluntary and they have the right to sto

#### 2. Vertebrate animal research:

- a. Discuss potential ALTERNATIVES to vertebrate animal use and prese
- b. Explain potential impact or contribution of this research.
- Detail all procedures to be used, including methods used to minimiz animals and detailed chemical concentrations and drug dosages.
- d. Detail animal numbers, species, strain, sex, age, source, etc., include
- e. Describe housing and oversight of daily care.
- f. Discuss disposition of the animals at the end of the study.

#### Potentially hazardous biological agents research:

- a. Give source of the organism and describe BSL assessment process
- b. Detail safety precautions and discuss methods of disposal.

#### 4. Hazardous chemicals, activities & devices:

- a. Describe Risk Assessment process, supervision, safety precautions a
- b. Material Safety Data Sheets are not necessary to submit with papery

The research plan is the most important document because it provides the regional SRC board the necessary details of the planned research.

This detailed description of the research guides the SRC to be able to determine if the proper forms were completed and if they contain the correct information.

Must be VERY detailed and clearly delineate the role of the student vs. the role of the mentor

Entire Research Plan must be in FUTURE tense!!

Must include proposed and actual start and end dates

Must include detailed research plan Must have all work site information completed

Must identify student and mentor role

## **Approval Form (1B)**

A completed form is required for each student, including all team members.

	ossible dangers to me of the prop	posed research plan.		
this research.	<ul> <li>I understand the risks and possible dangers to me of the proposed research plan.</li> <li>I have read the ISEF Rules and Guidelines and will adhere to all International Rules when contact this research.</li> <li>I have read and will abide by the science fair ethics statement.</li> </ul> Student researchers are expected to maintain the highest standards of honesty and integring the factural distribution. Such practices included the proposed research plan.			
Student researchers are expected to ma misconduct are not condoned at any lev plagiarism, forgery, use or presentation projects will fail to qualify for competition	el of research or competition. Su of other researcher's work as one	e's own, and fabric		
Student's Printed Name	Signature	Date Ack We wish the dated Beer on Date Ack (Must be sand possible dan This "Actual Start Date" on the ating in this resea		
b. Parent/Guardian Approval: I ha Research Plan/Project Summar		s and possible dan this "Actua" the ating in this resea		
Parent/Guardian's Printed Name	Signature	Date Acknowledged (mm/dd/yy) (Must be prior to experimentation.)		

2. To be completed by the local or affiliated Fair SRC (Required for projects requiring prior SRC/IRB APPROVAL. Sign 2a or 2b as appropriate.)





3. Final ISEF Affiliated Fair SRO oproval (Required or ALL Projects)

SRC Approval After Experimentation I certify that this project adheres to	etition	National Fair and complies with all ISEF Rules.
Regional SRC Chair's Printed Name	Do NOT write anything	Date of Approval (mm/dd/yy)
State/National SRC Chair's Printed Nap (where applicable)	in this space	Date of Approval (mm/dd/yy)
Page 34	nternational Rules: Guio	cience and Engineering Fairs 2023–2024. societyforscience.org/ISEF

## Regulated Research Institutional/Industrial Setting Form (IC), page I of 2

## Regulated Research Institutional/Industrial Setting Form (1C)

This form must be completed AFTER experimentation by the adult supervising the student research either virtually or on site, conducted in a regulated research institution, industrial setting or any work site other than home, school or field.

Student's Name(s)	
Title of Project	
To be completed by the Supervising Adult in the Setti (Responses must be on the form as it is required to be displayed) sided.)	
Research was supported at my work site:  1. Did you or your proxy (e.g. graduate student, postdoc, em substantial guidance to the student researcher?  a. If no, describe your and/or your institution's role with this/her project (e.g. supervised use of equipment on sign below.	company, environmental testing facility, etc), a facility where advanced research is allowed (certain high schools or local labs), or a place of business, the 1C form is required.  If the student worked with a mentor other
b. If yes, complete questions 2–5.	that the science teacher at school, the 1C form is <b>required</b> .
<ol> <li>Is the student's research project a subset of your ongoing Use questions 3, 4 and 5 to detail how the student's project different from ongoing research or work at your site. If this to be acknowledged, please list the grant statement here.</li> </ol>	
Describe the independence and creativity with which the sa. developed the hypotheses or engineering goals for the same content of the same co	If data is covered by privacy rules/laws (ex. Patient data) or from a private source (ex. Proprietary data), then the student must show documentation of how the data
developed the hypotheses or engineering goals for the	became available and how/why they were allowed to view it and study it.
b. designed the methodology for his/her research projec	The best thing to do is have the mentor send a short letter on their letterhead explaining that there were no HIPAA violations. This is even if the data was de-identified.
c. analyzed and interpreted data	See next page for more questions
(Continued on	next page)

# Regulated Research Institutional/Industrial Setting Form (1C), page 2

# Regulated Research Institutional/Industrial Setting Form (1C) Continued

Student's Name(s)	
<ol> <li>Detail the student's role in conducting the research (e.g. data collection, specific performed). Differentiate what the student observed and what the student actual</li> </ol>	
5. Did the student(s) work on the project as part of a group?  Were there other high school students present? If yes, please list the student na and describe how their work was related or different from the work of this project.	
I attest that the studen by institutional regulat acknowledge that the the student research the presenting this work publicly in competition the student research requirements for my review and/or restriction	
be the Mercher	
I attest that the studen this should not to	require review a AFTER A
by institutional regulation and that any by institutional regulation was acknowledge that the work publicly in competition	attach approved a dated from Line and
the student research regardle equirements for my review and/or restriction	
Supervising Adult's Printed Name Signature	Til the
Institution	Date Signed (must be after experimentation) (mm/dd/yy)
Address	Email/Phone

## **Qualified Scientist Form (2)**

May be required for research involving human participants, vertebrate animals, potentially hazardous biological agents, and hazardous substances and devices. Must be completed and signed before the start of student experimentation.

Student's Name(s)	
Title of Project	
To be completed by the Qualified Scientist:  Scientist Name:  Educational Background:  Experience/Training as relates to the student's area of rese	Degree(s):
experience, training as relates to the student's area of rese	saion.
Position/Institution: Email/Pho	ne:
Have you reviewed the ISEF rules relevant to this project fair ethics statement relevant to this project?	ct and the science Yes No
<ol> <li>Will any of the following be used?         <ul> <li>Human participants</li> <li>Vertebrate animals</li> <li>Potentially hazardous biological agents (microorgatissues, including blood and blood products)</li> <li>Hazardous substances and devices</li> </ul> </li> <li>Will this study be a sub-set of a larger study?</li> </ol>	Yes No Yes No Yes No Yes No Yes No Yes No
4. Will you directly supervise the student?	Yes No
<ul><li>a. If no, who will directly supervise and serve as the D</li><li>b. Experience/Training of the Designated Supervisor:</li></ul>	
To be completed by the Qualified Scientist:  I certify that I have reviewed and approved the Research Plan/ Project Summary prior to the start of the experimentation.  If the student or Designated Supervisor is not trained in the necessary procedures, I will ensure her/his training. I will provide advice and supervision during the research. I have a working knowledge of the techniques to be used by student in the Research Plan/Project Summary. I up that a Designated Supervisor is require not conducting experimentation under the start of the experimentation under the start of the experimentation.  Qualified Scientist's Printed Name	To be completed when the Qualification and I will provide the Supervisor and I will provide the Supervisor and I will provide the Supervisor's Printed Name    Date of Approval (mm/dd/yy)   Date of Approval (mm/dd/yy)
Signature Date of Approval (mm/dd/yy)	Phone Email

## **Risk Assessment Form (3)**

Must be completed before experimentation; recommended for all projects. May be required for projects involving Human Participants, Hazardous Chemicals, Materials or Devices or Potentially Hazardous Biological Agents.

Student's	s Name(s)			
itle of P	roject			
	mpleted by the Student R t: (All questions must be ans			ed Supervisor/Qualified
Identif	y and assess the risks and haza	irds involved in this proje	ct.	
	all hazardous chemicals, activ empt from pre-approval (see P			croorganisms to be used that
. Descri	be the safety precautions and	procedures that will be	used to reduce the risks.	
. Descri	be the disposal procedures th	at will be used (when ap	plicable).	
List the	e source(s) of safety information	on.		entist, ertify the statemen Line Royale Provide
I agree w Research	ompleted and signed by the vith the risk assessment and safted Plan/Project Summary and the pervision.	ety precautions and prod	edures described above. I co	entist, ertify the statemen st
Designate	d Supervisor's Printed Name	Signature		Date of Review (mm/dd/yy)
Experience	e/Training as relates to the student's	area of research		
Position/Ir	estitution		Phone or email contact i	information

## **Human Participants Form (4)**

Required for all research involving human participants not at a Regulated Research Institution. If at a Regulated Research Institution, use institutional approval forms for documentation of prior review and approval. (IRB approval required before recruitment or data collection.)

Student's Name(s)	Title of Project
Adult Sponsor	Phone/Email
MUST BE COMPLETED BY STUDENT RESEARCHER(S) IN COLLABORAT SCIENTIST:	FION WITH THE ADULT SPONSOR/DE SNATED SUPERVISOR/QUALIFIED
I have submitted my Research Plan/Project Summary which ad-	dresses ALL areas indicated in t
Research Plan/Project Summary Instructions.  2. I have attached any surveys or questionnaires I will be using in	my project or other docup Even though your school IRB may
Any published instrument(s) used was /were legally obtain	have given approval, the study mu
<ol> <li>I have attached an informed consent that I would use if require</li> <li>Yes No Are you working with a Qualified Scientist? If y</li> </ol>	
	IRB USE ONLY
MUST BE COMPLETED BY INSTITUTIONAL REVIEW BOARD (IR MUST BE ANSWERED FOR THE APPROVAL TO BE VALID. (IF NO	
INSTRUCTIONS FOR MODIFICATIONS.)	OF AFFROVED, RETURN FAFERWORK TO THE STODENT WITH
Approved with Full Committee Review (3 signatures req	uired) and the following conditions: (All 6 must be answered)
1. Risk Level (check one):	nimal Risk More than Minimal Risk (a risk assessment form 3 is required).
2. Qualified Scientist (QS) Required (Form 2):	
3. Risk Assessment Required (Form 3):	es No
Written Minor Assent required for minor participant      No.	s:
This form is to be filled out by the SCHOOL II	DR and not the regional with
This form is to be filled out by the SCHOOL II science fair review committee (SRC). However	
school IRB is aware of the rules and limitation	rrs or older in this study)
	, designated supervisor, qualified
projects. For more information and the full	
https://student.societyforscience.org/huma	
	Degree/Professional Lio se Date of Approval (M)  Discourse Professional Lio se Date of Approval (M)  Date of Approval (M)  Discourse Professional Counse Professional
physician's assistant, doctor of pharmacy, or registered nurse) with ex	Degree/Professional Light Start Date of Approval (My Actual Start Date)  Date of Approval (My Actual Start Date)
Printed Name  Signature  Signature  This CANNOT be the same teacher "Adult Sponsor"  This CANNOT be the "Adult Sponsor"	Degree/Professional Lightse the dates on for
ame teach "	This must start Date
Signature The the South Sports	Date of Approval (My Actual mentation.) (mm/dd/yy)
Educator CANNO 1 as the A	
Signature  Signature  This CANNOT be the same teacher  This CANNOT be the "Adult Sponsor"  This taigned as the "Adult Sponsor"	Degree/Professional Licent Degree/Professional Licent This must be dated BEFORE the dated B
The state of the s	Jated BER form 1h
Printed Name	Degree/Professional Licente Date" on 10
Signature	Degree/Professional Licen  Degree/Professional Licen  This must be dated BEFORE the dated B
	"Actual "Actua
School Administrator	Date of Approval (Must "Actual Sentation.) (mm/dd/yy)  Degree/Professional License This must be dated BEFORE the dated BEFORE
District Name	t be date, on for
Printed Name	Degree/Professional License This must be a Start Date
Signature	Date of Approval (Must by "Actual Immentation.) (mm/dd/yy)
	, , , , , , , , , , , , , , , , , , , ,
ternational Rules: Guidelines for Science and Engineering Fairs 2023–2024, socie	etyforscience.org/ISEF Page 3

#### **Human Informed Consent Form**

**Instructions to the Student Researcher(s):** An informed consent/assent/permission form should be developed in consultation with the Adult Sponsor, Designated Supervisor or Qualified Scientist.

This form is used to provide information to the research participant (or parent/guardian) and to document written informed consent, minor assent, and/or parental permission.

- · When written documentation is required, the researcher keeps the original, signed form.
- Students may use this sample form or may copy ALL elements of it into a new document.

If the form is serving to document parental permission, a copy of any survey or questionnaire must be attached. Student Researcher(s): Title of Project: This is just an example of a consent form. rmation about the I am asking for your voluntary participation in my science fair project. Please IMS IS JUST ATT EXAMINATE OF WHATEVER TO SHOW project. If you would like to participate, please sign in the appropri CONSENT FORM WILL & CODY OF WHATEVELY

STATE OF THE SURVEY

THE SURVEY Consent form will be used. If the survey of all of Purpose of the project: the consent questions as a part of that If you participate, you will be asked to: Time required for participation: Potential Risks of Study: Benefits: How confidentiality will be maintained: If you have any questions about this study, feel free to contact: Adult Sponsor/QS/DS: Phone/email: **Voluntary Participation:** Participation in this study is completely voluntary. If you decide not to participate there will not be negative consequences. Please be aware that if you decide to participate, you may stop participating at any time and you may decide not to answer any specific question. By signing this form I am attesting that I have read and understand the information above and I freely give my consent/ assent to participate or permission for my child to participate. Date Reviewed & Signed: **Adult Informed Consent or Minor Assent** (mm/dd/yy) Research Participant Printed Name: Signature: Parental/Guardian Permission (if applicable) Date Reviewed & Signed: (mm/dd/yy) Parent/Guardian Printed Name: Signature:

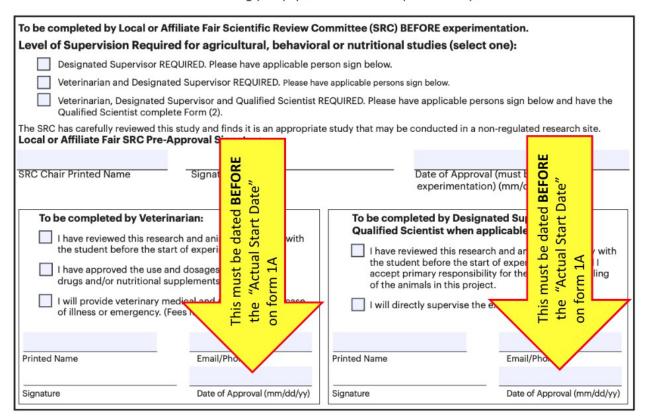
### **Vertebrate Animal Form (5A)**

Required for all research involving vertebrate animals that is conducted in a school/home/field research site. (SRC approval required before experimentation.)

Student's Name(s)	
Title of Project	

#### To be completed by Student Researcher:

- 1. Common name (or Genus, species) and number of animals used.
- 2. Describe completely the housing and husbandry to be provided. Include the cage/pen size, number of animals per cage, environment, bedding, type of food, frequency of food and water, how often animal is observed, etc. Add an additional page as necessary.
- 3. What will happen to the animals after experimentation?
- 4. Attach a copy of wildlife licenses or approval forms, as applicable
- 5. The ISEF Vertebrate Animal Rules require that any death, illness or unexpected weight loss be investigated and documented by a letter from the qualified scientist, designated supervisor or a veterinarian. If applicable, attach this letter with this form when submitting your paperwork to the SRC prior to competition.



# **Vertebrate Animal Form (5B)**

Required for all research involving vertebrate animals that is conducted in at a Regulated Research Institution. (IACUC approval required before experimentation. Form must be completed and signed after experimentation.)

	(IACUC approval required before experimentation. Form must be completed and signed after experimentation.)
St	tudent's Name(s)
Ti	tle of Project
Ti	tle and Protocol Number of IACUC Approved Project  You MUST include a copy of the actual IACUC form with
To	be completed by Qualified Scientist or Principal Investigator: the protocol number
1.	Species of animals used: Num f animals used:
2.	Describe, in detail, the role of the student in this project: animal procedures and related equipment that were involved, oversight provided and safety precautions employed. (Attach extra pages if necessary.)
3.	Was there any weight loss or death of any animal? If yes, attach a letter obtained from the qualified scientist designated supervisor or a veterinarian documenting the situation and the results of the investigation.
4.	Did the student's project also involve the use of tissues?  No Yes; complete Forms 6A and 6B
5.	What laboratory training, including dates, was provided to the student?
6.	Attach a copy of the Regulated Research Institution IACUC Approval. A letter from the Qualified Scientist or Principal Investigator is not sufficient.  This must be dated AFTER  Printed Name
	Qualified Scientist/Principal Investigator  Find Date of Onform
1	Printed Name
-	Signature Date (mm/dg

## Potentially Hazardous Biological Agents Risk Assessment Form (6A)

## Potentially Hazardous Biological Agents Risk Assessment Form (6A)

Required for research involving microorganisms, rDNA, fresh/frozen tissue (including primary cell lines, human and other primate established cell lines and tissue cultures), blood, blood products and body fluids.

SRC/IACUC/IBC approval required before experimentation.

Stı	dent's Name(s)
Tit	e of Project
То	e completed by the QUALIFIED SCIENTIST/DESIGNATED SUPERVISOR in collaboration with the student archer(s). All questions are applicable and must be answered; additional page(s) may be attached.
	TION 1: PROJECT ASSESSMENT  dentify potentially hazardous biological agents to be used in this experiment. Include the source, quantity and the biosafety level risk group of each microorganism.
•	
2.	Describe the site of experimentation including the level of biological containment.
3.	Describe the procedures that will be used to minimize risk (personal protective equipment, hood type, etc.).
4.	What final biosafety level do you recommend for this project given the risk assessment you conducted?
5.	Describe the method of disposal of all cultured materials and other potentially hazardous biological agents.
	TION 2: TRAINING
1.	What training will the student receive for this project?
2.	experience/training of Designated Supervisor as it relates to the student's area of research (if applicable).
C	EXPERIMENTATION 3: For ALL CELL LINES, MICROORGANISMS AND TISSUES - To be completed by the QUALIFIED SCIENTIST or BIGNATED SUPERVISOR - Check the appropriate box(es) below:    Experimentation on the microorganisms/cell lines/tissues to be used in this study will NOT be conducted at a Regulated Research Institution, but will be conducted at a (check one)   BSL-1 or   BSL-2 laboratory (include a copy of the checklist for BSL-2). [This study has been reviewed by the local SRC and the procedures have been approved prior to experimentation.]    Experimentation on the microorganisms/cell lines/tissues to the study will be conducted at a Regulated Research Institution and was approved by the appropriate or this study will be conducted at a Regulated Norigin of cell lines:    C/IBC approval
la	oratory.
Q	DS Printed Name Signature Date of review (mm/dd/yy)
	SRC has seen this project's research plan and supporting documentation and acknowledges the accuracy of the information provided.
SF	Printed Name Signature Date of review (mm/dd/yy)

## **Human and Vertebrate Animal Tissue Form (6B)**

## **Human and Vertebrate Animal Tissue Form (6B)**

Required for research involving fresh/frozen tissue (including primary cell lines, human and other primate established cell lines and tissue cultures), blood, blood products and body fluids. If the research involves living organisms please ensure that the proper human or animal forms are completed. **All projects using any tissue listed above must also complete Form 6A.** 

Stu	dent's Name(s)				
Titl	e of Project				
То	be completed by Student Res	earcher(s):			
1.	What vertebrate animal tissue will be resh or frozen tissue samp Fresh organ or other body presh Blood Body fluids Primary cell/tissue cultures Human or other primate es	le part	eck all that apply.		
2.	Where will the above tissue(s) be	obtained? If using an	established cell line include so	urce and catalog number.	
	If the tissue will be obtained fron the IACUC certification with the ber and a copy of IACUC approv	name of the research			
	or qualified personnel from the lal purpose other than the student's I AND/OR I certify that the blood, blood prod	colely with organs, tissue coratory; and that if vert esearch. ducts, tissues or body fl	es, cultures or cells that will be sup ebrate animals were euthanized the	th the	
Pi	rinted Name	Signature	Date of (Must be	Approval (mm/dd/yy) prior to experimentation.)	
Ti	tle		Phone/Email		
În	stitution				

## **Continuation/Research Progression Projects Form (7)**

Student's Name(s)

## **Continuation/Research Progression Projects Form (7)**

Required for projects that are a continuation/progression in the same field of study as a previous project. This form must be accompanied by the previous year's abstract and Research Plan/Project Summary.

Components	<b>Current Research Project</b>	Previous Research Project: Year	
. Title			
Change in goal/ purpose/objec- tive		ects <b>MUST</b> include this nmediately prior year,	
3. Changes in methodology	& Research Plan back, the research Abstract for each	researcher MUST include BOTH the Abstract & Research Plan. For any years farther back, the researcher MUST include the Abstract for each additional prior year's work.	
4. Variable studied	FOR ALL pi	ojects that were before January 1 <sup>st</sup> 2023	
5. Additional changes			
ttached are: Abstract and Researc	h Plan/Project Summary, Year		
	ove information is correct and that the cur k done only in the current year.	rent year Abstract & Certification and project d	
Student's Printed Name(s)	Signature	Date of Signature (mm/dd/yy)	