# University of Utah Science & Engineering Fair
## Science Fair Form – Elementary & Junior Division

## Student and Project Information

**Team Project** Yes ☐ No ☐ **Number of Participants** 1 ☐ 2 ☐ 3 ☐

**Student 1** **Grade**: 5 ☐ 6 ☐ 7 ☐ 8 ☐ **Student 2** 5 ☐ 6 ☐ 7 ☐ 8 ☐ **Student 3** 5 ☐ 6 ☐ 7 ☐ 8 ☐

**First Name:**_____ **First Name:** _____ **First Name:**_____

**Last Name:**_____ **Last Name:**_____ **Last Name:**_____

**School:** _____ **District:** _____

**Teacher Name:** _____ **Teacher Email:** _____

**Project Title:** _____

**A** research plan, including materials and methods to be used, must be submitted with this form**.** If any surveys or informed consent/assent are being used, blank copies must be included with your plan.

**Project Category:** Select the category that best fits your project

☐ Behavioral & Social Science
☐ Biology, Microbiology & Genetics
☐ Biomedical Engineering & Health Technologies
☐ Chemistry & Biochemistry
☐ Civil & Energy Engineering
☐ Computer Science & Applied Computational Methods
☐ Environmental Sciences/Engineering
☐ Electrical & Computer Engineering
☐ Mechanical & Materials Engineering
☐ Medicine & Health Sciences
☐ Physics, Astronomy & Math
☐ Plant Sciences

## BEFORE Experimentation Begins – Project Safety Concerns and Pre-Approval Signatures

Certain projects require additional considerations and supervision. Read through each of the following restrictions carefully. Determine if any of these apply to your project. Some projects may be subject to multiple restrictions. If any of these restrictions apply to your project, check the box for that area. **If no restrictions apply** only the science teacher signature is required. ***Before*** **beginning experimentation**, you will need to obtain any additional signatures listed in the restrictions.

### Human Test Subjects **(Example: surveys, taste tests, play a game or interact with another human in any way)**

If you are working with humans of ANY age, you need PRE-approval from a **Science Teacher AND a Psychologist, Medical Doctor or Registered Nurse** to make sure your research is safe. During the review, if it is determined that there is more than minimal risk to the human subjects involved in the project, the student must receive written consent from each of the participants. **Written parental consent for students under 18 years old is required for all studies.** **Required Signatures: Science Teacher AND a Psychologist, Medical Doctor or Registered Nurse. A copy of the surveys or test you intend to use must be attached.**

☐ **Check here if you are working with humans.**

### Non-Human Vertebrate **Animals (Example: fish, rabbits, dogs, etc)**

Experiments involving laboratory animals (rats, mice, hamsters, gerbils, rabbits, etc) cannot be conducted in a student's home except for behavior studies on pets. Proper animal care must be provided daily, including weekends, holidays and vacations. Experimental procedures that cause unnecessary pain or discomfort are prohibited. Experiments designed to kill vertebrate animals are not permitted. Experiments with a death rate of 30% or higher are not permitted. Behavioral studies or supplemental nutritional studies involving pets or livestock may be done at home.

**Required Signatures: Science Teacher AND a Veterinarian or other Biomedical/Biological Scientist**

☐ **Check here if you are working with animals.**

### Controlled Substances (Example: Over the counter or prescription drugs, tobacco, and alcohol)

Students must adhere to all federal, state and local laws when acquiring and handling controlled substances. Only under the direction of a qualified scientist or designated supervisor may a student use federally controlled or experimental substances for experimentation. Students under 21 may not handle or purchase smokeless powder or black powder for science projects.

**Required Signatures: Science Teacher AND a Biomedical/Biological Scientist**

☐ **Check here if you are working with controlled substances.**

### Hazardous Substances or Devices (Chemicals, firearms, 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 devices must follow proper safety procedures for each chemical or device used in the research.

**Required Signatures: Science Teacher AND a Biomedical/Biological Scientist**

☐ **Check here if you are working with hazardous substances or devices.**

### Potentially Hazardous Biological Agents (Example: Bacteria, Mold, Fungi, Viruses, Parasites, Recombinant DNA (rDNA), Human or Animal fresh tissues, blood or body fluids, etc)

All **Biosafety Level 1 and 2 projects can be performed in a school laboratory.** **BACTERIA MAY NOT BE GROWN AT HOME – NO EXCEPTIONS.** 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. For lab space or questions, please contact USEF.

**Required Signatures: Science Teacher AND a Biomedical/Biological Scientist**

☐ **Check here if you are working with hazardous biological agents.**

## Teacher APPROVAL
(required for ALL projects)

I have reviewed and approved this student's research plan ***prior to experimentation and*** certify that it will comply with all of the experimental rules of the University of Utah Science & Engineering Fair.

_____

Teacher Signature Date

## Additional Safety APPROVAL
(required if any boxes are checked above)

**Name:** _____ **Date:** _____

**Position:**_____

**Email:**_____

**Signature:** _____

If more than one signature is required, please use an additional copy of this form.

## Supervisor Acknowledgement

Students must have an adult supervisor when working on the project. This may be a parent or guardian, a teacher, or a laboratory supervisor.

I, the Designated Supervisor, certify that:

- I have read the student's plan and understand all safety requirements.
- I have been trained in the techniques to be used by this student prior to the start of experimentation.
- I will provide direct supervision and take responsibility for the safety of my student(s) and any possible participants.

Designated Supervisor's Name _____ Signature _____ Date _____

Email or phone #:_____

## Research Location

Research Locations: Please list the names, addresses and type of location for each place you plan to conduct your research or work on your problem.

Check all that apply.

Facility Type: Home ☐ School ☐ University ☐ Lab ☐ Public Facility (Park, Library, Etc) ☐ Other ☐

Location #1: _____ Location #2: _____

## Student & Parent/Guardian Signatures

I certify the following:

☐ My science project complies with all the experimental rules of the University of Utah Science and Engineering Fair.

☐ I have attached a research plan that includes all materials and the methods to be used. If any surveys or informed consent/assent are being used, blank copies must be included with your plan.

Signature of Student_____Date_____

**If this is a team project, each additional team member must sign below**.

Signature of Student_____Date_____

Signature of Student_____Date_____

I have read and understand the risks and possible dangers involved in the project plan, and I consent to my child participating in this project.

Signature of Parent/Guardian_____Date_____

**If this is a team project, each additional team member's Parent/Guardian must sign below**.

Signature of Parent/Guardian_____Date_____

Signature of Parent/Guardian_____Date_____

**This form must be submitted to your teacher or school fair coordinator. School fair coordinators must turn this form in to the district-level fair coordinators in order to qualify for USEF.**

***PLEASE KEEP A COPY FOR YOURSELF!!***

Please contact Jody Oostema at jody.oostema@utah.edu or text or call at 801-661-2120 with any questions.

The University of Utah Science & Engineering Fair is presented by the Center for Science and Mathematics Education and the University of Utah.