

# ISEF PROJECT PRÉCIS

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Name(s) of ISEFers:

Date:

**Working title of the project:**

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I/we plan to (check the choice that best fits your project at this time):

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| <input type="checkbox"/> Do an experiment to test a hypothesis  | <input type="checkbox"/> Develop a new way of doing something |
| <input type="checkbox"/> Conduct an observational experiment    | <input type="checkbox"/> Develop something new with math      |
| <input type="checkbox"/> Create something new to address a need | <input type="checkbox"/> Develop something new with computers |

**Hypothesis OR the Engineering Goal:**

**Why is this research important? Briefly explain the value of your project to the world and to science (Include EVIDENCE - information from your background research):**

**Background Research Citations - you can attach a print-out of your references to this précis or write in the citations below** (five sources MINIMUM; APA Style):

1. At least one article should support the value of the project you are doing - why is this topic important?

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2. One should supply you the basic reference knowledge needed - what do you need to know about to work in this field (usually a textbook or manual)?:

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3. One for the methods used in projects of this type

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4. One for findings of a related experiment or engineering design

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5. One for the new knowledge that will be gained (hint: this is usually found in the Results and Discussion sections of scientific papers. Look for phrases like "further research is needed to..." and "...is not yet known". It may also be found in popular articles about scientific breakthroughs or puzzles. And if you look really, really hard in the background literature, and you don't find anything about what you intend to do for your project, then you can use a few related examples with your own statement that "\_\_\_\_\_ has not been previously studied." If you can't find what you need for this citation, then double-up on one of the above 1-4 reference types.

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**Experimental Considerations & Risks: (Check all that apply)**

- Use of vertebrate animals** (such as changing diet, behavior study, taking tissue or other samples from the animal)
- Use of human subjects** (such as asking people to eat and/or drink anything, exercise, do a quiz or answer survey questions)
- Growth and study of bacteria, fungi, molds, and/or viruses; use of animal or human tissues**
- Potentially hazardous chemicals** (even common household chemicals that might harm health or the environment)
- Hazardous activities** (NOTE: most projects involving weapons are NOT allowed)

**Sketch or describe your possible project set up (experiment or engineering design):**

**All projects must have an Adult Sponsor. See your ISEF Guidebook for more information about this person's role in your project. Please have your Adult Sponsor\* sign this form before you turn it in.**

**To the Adult Sponsor:**

*I have reviewed the information in this brief project proposal and am willing to serve as Adult Sponsor on this ISEF project for school year 2016-2017. As Adult Sponsor, I will offer suggestions on the research plan when it is shared with me by the student, and periodically check in with the student to affirm progress. I understand progress updates will also be shared with me by the CREST staff.*

Name: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

\*In some research areas, your Adult Sponsor is assigned:

At West Linn HS: Microbiology - Mr. Nagler; Chemistry - see ISEF office for name; Behavioral Science - Ms. Emerick

At Wilsonville HS: Microbiology - Mr. Schuster; Chemistry - Mr. O'Connell; Behavioral Science - Mr. Ekman; Engineering - Mr. Hyman

For all other topic areas, please ask the teacher of your choice, preferably in the science department.