

ENGINEERING AND INVENTION PROJECT CHECKLIST

([Modified from ISEF Guidelines](#), p 22)

Hazardous Chemicals, Activities and Devices

Will your project involve any of the following:

- | | |
|--|--|
| <input type="checkbox"/> DEA-controlled Substances | <input type="checkbox"/> Radiation |
| <input type="checkbox"/> Firearms and Explosives | <input type="checkbox"/> Any activity, material, chemical or device that is outside of the student's everyday occurrence |
| <input type="checkbox"/> Prescription Drugs | |
| <input type="checkbox"/> Alcohol & Tobacco | |
| <input type="checkbox"/> Regulated Drones | |

If any are checked, see Hazardous Rules, page 19.

Human Participants

- ☐ Are you going to test your project (device, app, invention, prototype, etc.)? If yes, does it require persons to interact with it other than yourself or adult sponsor/ supervisor?
- ☐ Do you intend to gather background knowledge through a survey or interviews to understand the potential use and needs for your project design?
- ☐ Are you going to ask for opinions or suggestions on your project design at any point of the project?
- ☐ Does your project intend to gather personal data/have a health benefit to the user?
- ☐ Will participants be involved in any physical activities (e.g., physical exertion, ingestion of any substance, any medical procedure)?
- ☐ Does your study involve psychological, educational and opinion studies (e.g., surveys, questionnaires, tests)?
- ☐ Are you using studies in which the researcher is the subject of the research?
- ☐ Are you using data/record review information that include data that are not de-identified/anonymous (e.g., data set that includes name, birth date, phone number or other identifying variables)?
- ☐ Does your investigation involve behavioral observations that involve any interaction with the observed individual(s) or where the researcher has modified the environment (e.g., post a sign, place an object)?
- ☐ Are you observing activities that occur in non-public or restricted access settings (e.g., day care setting, doctor's office)?
- ☐ Are you collecting or recording any personally identifiable information?
- ☐ Are you testing of student designed invention, prototype or computer application by human participants other than student researcher?

If any are checked, see Human Participant Rules, page 8.

Vertebrate Animals

- ☐ Does your project include any interaction with vertebrate animals in any phase of the project?

If any are checked, see Vertebrate Animal Rules, page 12.

Potentially Hazardous Biological Agents

- ☐ Does your project include any collection, examination or handling of microorganisms, and/or fresh or frozen tissue, primary cell cultures, blood, blood products or body fluids, animal waste?
- ☐ Are you going to culture or isolate any substance, organisms, known or unknown?
- ☐ Does your project involve drug resistance?
- ☐ Are you do a recombinant study?

If any are checked, see Potentially Hazardous Biological Agents Rules, page 15