

LOUISVILLE REGIONAL SCIENCE &
ENGINEERING FAIR



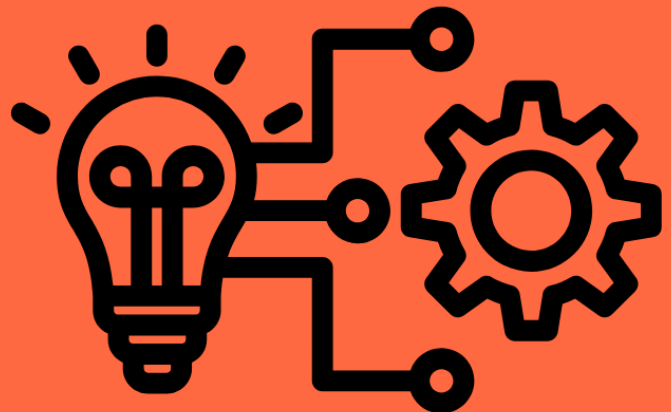
LRSEF 2023-24

Project Guidelines

*ADAPTED FROM THE
2023 REGENERON GUIDELINES*

Project Presentation Template

Engineering Project



LRSEF 2023-24 Project Presentation Template:

Engineering Project

Adapted from the 2023 Regeneration Guidelines

1) Project Title and Name

The following should be included:

- Project Title
- Name and Names of your Team members if this is a Team Project.

2) INTRODUCTION - What is your engineering problem and goal?

- What problem were you trying to solve? Include a description of your engineering goal.
- Explain what is known or has already been done to solve this problem, including work on which you may build. You may include a brief review of relevant literature.
- **If this is a continuation project**, a brief summary of your prior work is appropriate here. Be sure to distinguish your previous work from this year's project.

3) METHODS - Explain your methods and procedures for building your design.

- What did you do? How did you design and produce your prototype? If there is a physical prototype, you may want to include pictures or designs of the prototype.
- If you tested the prototype, what were your testing procedures? What data did you collect and how did you collect that data?
- DO NOT include a separate list of materials.

4) RESULTS - What were the result(s) of your project?

- How did your prototype meet your engineering goal?
- If you tested the prototype, provide a summary of testing data tables and figures that illustrate your results.
- Include relevant statistical analysis of the data.

5) DISCUSSION - What is your interpretation of these results?

- What do these results mean? You may compare your results with theories, published data, commonly held beliefs, and/or expected results.
- Did any questions or problems arise that you were not expecting? Were these problems caused by uncontrolled events? How did you address these?
- How is your prototype an improvement or advancement over what is currently available?

6) CONCLUSIONS - What conclusions did you reach?

- Did your project turn out as you expected?
- What application(s) do you see for your work?

7) REFERENCES

- This section should not exceed one page. Limit your list to the most important references.
- List the references/documentation used which were not of your own creation (i.e., books, journal articles).
- It is permissible to include a short statement acknowledging support from supervisors, research groups and others that had a direct role in your project.