

**Baugh Wind Energy Design Contest**  
**Oklahoma Christian University**  
**College of Engineering and Computer Science**  
**Design Report Guidelines**

1. Print a page number at the bottom of every page.
2. Do not print double-sided.
3. Electronic .pdf submissions are required.

Your final report should include:

**Title page.**

- a. School and Team Name
- b. Full Names of Team Members
- c. Mentor or Coach

**Abstract.** An abstract is a brief (150 words) synopsis of the design report. Explain what you did, how you did it and what your results mean. Write this section last.

**Problem Statement.** Identify the problem you solved or the hypothesis you investigated or the design you pursued. Motivate the reader to finish the abstract and read the entire report.

**Introduction.** This is where you describe the purpose of the experiment. Why should anyone care about the work you did? You have to tell them why. Did you explain something that should cause people to change the way they go about their daily business? If you made an invention or developed a new procedure how is it better, faster, or cheaper than what is already out there?

**Background research.**

- a. At least three Scholarly resources (not Wikipedia) should be consulted.
- b. This section should detail similar previous experiments and turbine designs others have conducted.

**Procedures.** What was your approach for investigating the problem? Don't go into detail about materials unless they were critical to your success. Do describe the most important variables if you have room.

- a. The question should address the matter of efficiency and power in wind turbine design.
- b. All Independent, dependent, and controlled variables should be stated.
- c. The hypothesis may include the design goals and criteria.
- d. Detail the cost of materials used in the process.

**Results.** What answer did you obtain? Be specific and use numbers to describe your results. Do not use vague terms like "most" or "some."

**Conclusions**

- a. For an engineering project state whether you met your design criteria.
- b. Summarize results in a few sentences and use this summary to support your conclusion.
- c. Include key facts from your background research to help explain your results as needed.
- d. Suggest changes in the experimental procedure, or design and/or possibilities for further study.

**Bibliography.** All external and scholarly sources used must be listed here.

Additional helpful information can be obtained at:

- “Science Fair Project Final Report." *Science Buddies*. N.p., n.d. Web. 11 Aug. 2016.
- For questions, contact Dr. Wayne Whaley at [wayne.whaley@oc.edu](mailto:wayne.whaley@oc.edu) or Rosie Haulsey at [roseline.haulsey@oc.edu](mailto:roseline.haulsey@oc.edu)