

JUDGE #

# WESEF Engineering Rubric

Poster ID#

*Please use your best judgment; the following is a set of criteria that can assist you in interviewing the presenters and aid in your evaluation of the students' projects. Please circle a number; you must choose a whole number.*

Guidelines	Notes
<p><b>I. Introduction &amp; Background</b></p> <ul style="list-style-type: none"> <li>Provides an intro that begins with general info leading up to the area of research, student understands how their research builds upon previous work</li> </ul>	<p>1 2 3 4 5 6 7 8 9 10</p>
<p><b>II. Problem Statement/Goals</b></p> <ul style="list-style-type: none"> <li>Student clearly explained the goals or purpose of the research</li> <li>Explains how the goal addresses a problem (gap in previous research)</li> </ul>	<p>1 2 3 4 5 6 7 8 9 10</p>
<p><b>III. Methods/ Materials</b></p> <ul style="list-style-type: none"> <li>Student clearly identifies their role &amp; the mentor's role in the project</li> <li>Uses an efficient and reliable method for scientific work</li> <li>A clear plan was shown and variables were identified</li> <li><i>If controls were necessary</i>, appropriate controls were correctly used</li> <li>Objective is relevant to the potential users' needs</li> <li>Solution can be utilized successfully in design or construction of an end product</li> </ul>	<p>1 2 3 4 5 6 7 8 9 10</p>
<p><b>IV. Results / Analysis</b></p> <ul style="list-style-type: none"> <li>Student clearly and adequately explained the results of his/her work</li> <li>Solution is a significant improvement over previous alternatives</li> <li>Solution has been tested for performance under conditions of use</li> <li>Student was able to explain method of analysis used</li> <li>If statistical analysis was used, student was able to adequately explain the results</li> </ul>	<p>1 2 3 4 5 6 7 8 9 10 11 12 13 14 15</p>

**-- Please return ALL rubrics, NO RUBRICS SHOULD BE DISCARDED --**

# WESEF Engineering Rubric

----- Rubric continues onto the back -----

<p><b>V. Discussion/Application</b></p> <ul style="list-style-type: none"> <li>▪ Student understands the relationship of his/her results with respect to the goals identified</li> <li>▪ Student interpreted the data in a way that is consistent with the original hypothesis/problem statement</li> <li>▪ The research supported a creative approach to addressing a scientific question or problem</li> <li>▪ The student provided possible applications of his/her work</li> </ul>	<p>1    2    3    4    5    6    7    8    9    10</p>
<p><b>VI. Conclusion/ Future Research</b></p> <ul style="list-style-type: none"> <li>▪ Sound conclusions were made based on the data/schematics presented</li> <li>▪ Project was carried out to completion within the scope of the original intent</li> <li>▪ Demonstrated a clear direction for further study in the area of research</li> </ul>	<p>1    2    3    4    5    6    7    8    9    10</p>
<p><b>VII. Quality of Presentation</b></p> <ul style="list-style-type: none"> <li>▪ Student presented the material in a clear and organized manner</li> <li>▪ The student demonstrated enthusiasm in the presentation of his/her research</li> </ul>	<p>1    2    3    4    5    6    7    8    9    10</p>
<p><b>VIII. Student Understanding</b></p> <ul style="list-style-type: none"> <li>▪ Student demonstrated understanding of the project by answering specific questions</li> <li>▪ Student clearly explains all aspects of the project</li> </ul>	<p>1    2    3    4    5    6    7    8    9    10    11    12    13    14    15</p>
<p><b>IX. Physical Poster Organization</b></p> <ul style="list-style-type: none"> <li>▪ The poster demonstrated an organized scientific approach</li> <li>▪ Poster clearly showed the data that was presented in identifiable tables and or figures</li> <li>▪ Poster clearly presented the specific goals or specific purpose of research study</li> <li>▪ Text was clearly visible with readable formatting</li> <li>▪ Information was creatively organized in a way that enhanced the presentation of student's research</li> </ul>	<p>1    2    3    4    5    6    7    8    9    10</p>

**-- Please return ALL rubrics, NO RUBRICS SHOULD BE DISCARDED --**