|  |  |  |  |
| --- | --- | --- | --- |
| **Judging Criteria** | | **Points** | **Total Points Awarded** |
| **Research Question**  **10 pts** | Description of practical need or problem to be solved |  |  |
| Definition of criteria for proposed solution |  |
| Explanation of constraints |  |
| **Design and Methodology**  **15 pts** | Exploration of alternatives to answer need or problem |  |  |
| Identification of a solution |  |
| Development of a prototype/model |  |
| **Execution:** Data Collection, Analysis and Interpretation  **20 pts** | Prototype demonstrates intended design |  |  |
| Prototype has been tested in multiple conditions/trials |  |
| Prototype demonstrates engineering skill and completeness |  |
| **Creativity**  **20 pts** | Project demonstrates significant creativity in one or more of the above criteria |  |  |
| **Presentation**  **35 pts** | **Poster (10 pts)** |  |  |
| * Logical organization of material |  |
| * Clarity of graphics and legends |  |
| * Supporting documentation displayed |  |
| **Interview (25 pts)** |  |
| * Clear, concise, thoughtful responses to questions |  |
| * Understanding of basic science relevant to project |  |
| * Understanding interpretation and limitations of results and conclusions |  |
| * Degree of independence in conducting project |  |
| * Recognition of potential impact on science, society and/or economics |  |
| * Quality of ideas for further research |  |
|