

ISEF Judging Criteria for Engineering Projects

Research Problem	<ol style="list-style-type: none"> 1. description of a practical need or problem to be solved 2. definition of criteria for proposed solution 3. explanation of constraints 	10 pts.
Design and Methodology	<ol style="list-style-type: none"> 1. exploration of alternatives to answer need or problem 2. identification of a solution 3. development of a prototype/model 	15 pts.
Execution: Construction and Testing	<ol style="list-style-type: none"> 1. prototype demonstrates intended design 2. prototype has been tested in multiple conditions/trials <p>prototype demonstrates engineering skill and completeness</p>	20 pts.
Creativity	<ol style="list-style-type: none"> 1. project demonstrates significant creativity in one or more of the above criteria 	20 pts.
Presentation		
<ul style="list-style-type: none"> • Poster 	<ol style="list-style-type: none"> 1. logical organization of material 2. clarity of graphics and legends 3. supporting documentation displayed 	10 pts.
<ul style="list-style-type: none"> • Interview 	<ol style="list-style-type: none"> 1. clear, concise, thoughtful responses to questions 2. understanding of basic science relevant to project 3. understanding interpretation and limitations of results and conclusions 4. degree of independence in conducting project 5. recognition of potential impact in science, society and/or economics 6. quality of ideas for further research 7. for team projects, contributions to and understanding of project by all members 	25 pts.