## Judging Criteria for Intel ISEF and for NCSEF

The following evaluation criteria are used for judging at the Intel ISEF and at the NC Science and Engineering Fair (NCSEF). As shown, science and engineering have different criteria, each with five sections as well as suggested scoring for each section. Each section includes key items to consider for evaluation both before and after the interview.

Students are encouraged to design their posters in a clear and informative manner to allow pre-interview evaluation and to enable the interview to become an in-depth discussion. Judges should examine the student notebook and, if present, any special forms such as Form 1C (Regulated Research Institution/Industrial Setting) and Form 7 (Continuation of Projects). Considerable emphasis is placed on two areas: *Creativity* and *Presentation*, especially the *Interview* section, and are discussed in more detail below.

<u>**Creativity:**</u> A creative project demonstrates imagination, originality, and inventiveness. Such projects often offer different perspectives that open up new possibilities or new alternatives. Judges should place emphasis on research outcomes in evaluating creativity.

**<u>Presentation/Interview</u>**: The interview provides the opportunity to interact with the finalists and evaluate their understanding of the project's basic science, interpretation and limitations of the results and conclusions.

- If the project was done at a research or industrial facility, the judge should determine the degree of independence of the finalist in conducting the project, which is documented on Form 1C.
- If the project was completed at home or in a school laboratory, the judge should determine if the finalist received any mentoring or professional guidance.
- If the project is a multi-year effort, the interview should focus ONLY on the current year's work. Judges should review the project's abstract and Form 7 (Intel ISEF Continuation Projects) to clarify what progress was completed this year.
- Please note that both team and individual projects are judged together, and projects should be judged only on the basis of their quality. However, all team members should demonstrate significant contributions to and an understanding of the project.

Project # Student Na		Category	. <u></u>
Judging (	Criteria for Science Pro	ojects	
C io	h Question (10 pts) lear and focused purpose dentifies contribution to field estable using scientific meth	-	
V	and Methodology (15 pts) vell designed plan and data variables and controls define	collection methods ed, appropriate and complete	
s r a	eproducibility of results	<b>Iysis and Interpretation(20 pts)</b> nd analysis athematical and statistical methods upport interpretation and conclusions	 3
		cant creativity in one or more of the	
a. <u>Post</u>	ntation (35 pts) er <u>10 pts)</u> logical organization of mater clarity of graphics and legen		

- \_\_\_\_\_ supporting documentation displayed
- b. 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 in science, society and/or economics
  - \_\_\_\_ quality of ideas for further research
  - \_\_\_\_ for team projects, contributions to and understanding of project by all members

TOTAL POINTS	
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Comments:	

Judging Criteria for Engineering Projects	
I. Research Problem (10 pts) description of a practical need or problem to be solved definition of criteria for proposed solution explanation of constraints	
II. Design and Methodology (15 pts) exploration of alternatives to answer need or problem identification of a solution development of a prototype/model	
III. Execution: Construction and Testing(20 pts)	
IV. Creativity (20 pts) project demonstrates significant creativity in one or more of the above criteria	
<ul> <li>V. Presentation (35 pts) <ul> <li>a. Poster (10 pts)</li> <li>logical organization of material</li> <li>clarity of graphics and legends</li> <li>supporting documentation displayed</li> </ul> </li> <li>b. Interview (25 pts) <ul> <li>clear, concise, thoughtful responses to questions</li> <li>understanding of basic science relevant to project</li> <li>understanding interpretation and limitations of results and conclusions</li> <li>degree of independence in conducting project</li> <li>recognition of potential impact in science, society and/or economics</li> <li>quality of ideas for further research</li> <li>for team projects, contributions to and understanding of project by all members</li> </ul> </li> </ul>	

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