



## HAWAI'I STATE SCIENCE AND ENGINEERING FAIR

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Scan and send by email, FAX or mail these forms to the science fair office.

*Note: ALL forms must be signed appropriately!*

### RESEARCH PROJECTS:

- Exhibit entry forms PAGES 1 & 2
- Student Checklist 1A
- Research Plan
- Approval Form 1B
- Checklist for Adult Sponsor
- Assistance Received Form
- Abstract
- Required & Signed Special Forms (see Handbook)

### DISPLAY PROJECTS:

- Exhibit entry forms PAGES 1 & 2
- Display Certification Form
- Assistance Received Form
- Summary

Email:

[acadsci@hawaii.edu](mailto:acadsci@hawaii.edu)

Fax:

(808) 956-5183

Mail:

Hawai'i Academy of Science  
1776 University Ave. UA4-4  
Honolulu, HI 96822  
(808) 956-7930

>>> **Make copies of all your completed forms and bring them to the State Science Fair.** <<<

# HSSEF 2011-2012 Entry Form, page 1

Proj# \_\_\_\_\_  
(Office Use Only)

- This form must be used as the District Fair Entry Form, or the School Entry Form if there is no district fair.
- If any information has changed (i.e. project title or mailing address), a new form must be submitted.
- Information for awards, certificates and the Official Program is taken from this form.  
**TYPE or LEGIBLY PRINT** all information. Double-check your form before sending it in.
- By entering the Hawai'i State Science and Engineering Fair (HSSEF) you are agreeing to be videotaped or photographed for various media or Hawai'i Academy of Science promotional material. If you do NOT wish to be photographed, please call our office for instructions at (808) 956-7930.

## School Information

School \_\_\_\_\_ School Phone \_\_\_\_\_ Fax \_\_\_\_\_

School Address \_\_\_\_\_

Science Fair Coordinator\* \_\_\_\_\_ Best Contact Info \_\_\_\_\_

\*(if different from teacher)

## Student or Team Leader Information - PRINT LEGIBLY!!

Student's Name \_\_\_\_\_

First MI Last

Female  Male (pls. check one) Grade \_\_\_\_\_ Age \_\_\_\_\_ E-mail \_\_\_\_\_

Mailing Address \_\_\_\_\_

City/State/Zip \_\_\_\_\_ Phone \_\_\_\_\_

## Team Members - PRINT LEGIBLY!!

Second Student \_\_\_\_\_

First MI Last

Female  Male (pls. check one) Grade \_\_\_\_\_ Age \_\_\_\_\_ E-mail \_\_\_\_\_

Mailing Address \_\_\_\_\_

City/State/Zip \_\_\_\_\_ Phone \_\_\_\_\_

Third Student \_\_\_\_\_

First MI Last

Female  Male (pls. check one) Grade \_\_\_\_\_ Age \_\_\_\_\_ E-mail \_\_\_\_\_

Mailing Address \_\_\_\_\_

City/State/Zip \_\_\_\_\_ Phone \_\_\_\_\_

## Teacher and Mentor Information

Teacher or Adviser (full name) \_\_\_\_\_ Home Phone \_\_\_\_\_

Teacher's E-mail \_\_\_\_\_

Scientist Mentor (full name & affiliation) Dr./Mr./Ms. \_\_\_\_\_

# HSSEF 2011-2012 Entry Form, page 2

Student(s) Last Name(s) \_\_\_\_\_

**Project Title** \_\_\_\_\_

**Exhibit Information**

This project needs to be on the **floor**; it is too tall to go on a table.

This project needs **electricity**. (Students needs to provide their own extension cords)

**Division** (Check one)

Senior Research\* (9–12)

Junior Research (6–8)

Junior Display (6–8)

**\*Senior Research** entrants, indicate if you will attend any of the following local universities if you are awarded a partial scholarship (check all that apply):  University of Hawaii  Chaminade University  Hawaii Pacific University

**Subject Category** Check only ONE.

1. Animal Sciences

10. Engergy & Transportation

2. Behavioral & Social Sciences

11. Environmental Management

3. Biochemistry

12. Environmental Sciences

4. Cellular & Molecular Biology

13. Mathematical Sciences

5. Chemistry

14. Medicine & Health Sciences

6. Computer Science

15. Microbiology

7. Earth & Planetary Science

16. Physics & Astronomy

8. Engineering: Electrical & Mechanical

17. Plant Sciences

9. Engineering: Materials & Bioengineering

**For District/School Fair use:**

Recommended \_\_\_\_\_ or Provisional \_\_\_\_\_ Rank \_\_\_\_\_ (rank all provisional projects ).

**Signature of the Chief Judge or Fair Coordinator:** \_\_\_\_\_

*Invalid if not completed and signed. By signing this form you are acknowledging that you have read and checked all forms for proper signatures and rules compliance.*

# Student Checklist (1A)

This form is required for ALL projects.

1) a. Student/Team Leader: \_\_\_\_\_ Grade: \_\_\_\_\_

Email: \_\_\_\_\_ Phone: \_\_\_\_\_

b. Team Member: \_\_\_\_\_ c. Team Member: \_\_\_\_\_

2) Title of Project: \_\_\_\_\_

3) School: \_\_\_\_\_ School Phone: \_\_\_\_\_

School Address: \_\_\_\_\_

4) Adult Sponsor: \_\_\_\_\_ Phone/Email: \_\_\_\_\_

5) Is this a continuation from a previous year?  Yes  No

**If Yes:**

a) Attach the previous year's  **Abstract and**  **Research Plan**

b) Explain how this project is new and different from previous years on  **Continuation Form (7)**

6) **This year's** laboratory experiment/data collection: (must be stated (mm/dd/yy))

Start Date: \_\_\_\_\_ End Date: \_\_\_\_\_

7) Where will you conduct your experimentation? (check all that apply)

Research Institution  School  Field  Home  Other: \_\_\_\_\_

8) List name and address of all non-school work site(s):

Name: \_\_\_\_\_

Address: \_\_\_\_\_

Phone: \_\_\_\_\_

9) **Complete a Research Plan following the Research Plan instructions and attach to this form.**

10) **An abstract is required for all projects after experimentation.**

# Approval Form (1B)

A completed form is required for each student, including all team members.

## 1) To Be Completed by Student and Parent

### a) Student Acknowledgment:

- I understand the risks and possible dangers to me of the proposed research plan.
- I have read the Intel ISEF Rules and Guidelines and will adhere to all International Rules when conducting this research.
- I have read and will abide by the following Ethics statement

**Scientific fraud and misconduct are not condoned at any level of research or competition. Such practices include plagiarism, forgery, use or presentation of other researcher's work as one's own, and fabrication of data. Fraudulent projects will fail to qualify for competition in affiliated fairs and the Intel ISEF.**

\_\_\_\_\_  
Student's Printed Name

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date Acknowledged  
(Must be prior to experimentation.)

**b) Parent/Guardian Approval:** I have read and understand the risks and possible dangers involved in the **Research Plan**. I consent to my child participating in this research.

\_\_\_\_\_  
Parent/Guardian's Printed Name

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date of Approval  
(Must be prior to experimentation.)

## 2) To be completed by the Fair SRC

(Required for projects requiring prior SRC/IRB APPROVAL. Sign 2a or 2b as appropriate.)

**a) Required for projects that need prior SRC/IRB approval BEFORE experimentation**  
(humans, vertebrates or potentially hazardous biological agents)

The SRC/IRB has carefully studied this project's **Research Plan** and all the required forms are included. My signature indicates approval of the **Research Plan** before the student begins experimentation.

\_\_\_\_\_  
SRC/IRB Chair's Printed Name

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date of Approval  
(Must be prior to experimentation.)

OR

**b) Required for research conducted at all Regulated Research Institutions with no prior fair SRC/IRB approval.**

This project was conducted at a regulated research institution (**not home or high school, etc.**), was reviewed and approved by the proper institutional board before experimentation and complies with the Intel ISEF Rules. **Attach (1C) and required institutional approvals (e.g. IACUC, IRB)**

\_\_\_\_\_  
SRC Chair's Printed Name

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date of Approval

## 3) Final Intel ISEF Affiliated Fair SRC Approval (Required for ALL Projects)

### SRC Approval After Experimentation and Shortly Before Competition at Regional/State/National Fair

I certify that this project adheres to the approved **Research Plan** and complies with all Intel ISEF Rules.

\_\_\_\_\_  
Regional SRC Chair's Printed Name

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date of Approval

\_\_\_\_\_  
State/National SRC Chair's Printed Name  
(where applicable)

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date of Approval

# Checklist for Adult Sponsor (1)

This completed form is required for ALL projects.

To be completed by the Adult Sponsor in collaboration with the student researcher(s):

Student's Name(s): \_\_\_\_\_

Project Title: \_\_\_\_\_

- 1)  I have reviewed the Intel ISEF Rules and Guidelines.
- 2)  I have reviewed the student's completed Student Checklist (1A) and Research Plan.
- 3)  I have worked with the student and we have discussed the possible risks involved in the project.
- 4)  The project involves one or more of the following and requires prior approval by an SRC, IRB, IACUC or IBC:
  - Humans
  - Vertebrate Animals
  - Potentially Hazardous Biological Agents
  - Microorganisms
  - rDNA
  - Tissues
- 5)  Items to be completed for **ALL PROJECTS**
  - Adult Sponsor Checklist (1)
  - Student Checklist (1A)
  - Regulated Research Institutional/Industrial Setting Form (1C) (when applicable after completed experiment)
  - Continuation Form (7) (when applicable)
  - Research Plan
  - Approval Form (1B)

6) **Additional forms required if the project includes the use of one or more of the following** (check all that apply):

- Humans** (Requires prior approval by an Institutional Review Board (IRB); see full text of the rules.)
  - Human Participants Form (4) or appropriate Institutional IRB documentation
  - Sample of Informed Consent Form (when applicable and/or required by the IRB)
  - Qualified Scientist Form (2) (when applicable and/or required by the IRB)
- Vertebrate Animals** (Requires prior approval, see full text of the rules.)
  - Vertebrate Animal Form (5A)—for projects conducted in a school/home/field research site (SRC prior approval required.)
  - Vertebrate Animal Form (5B)—for projects conducted at a Regulated Research Institution. (Institutional Animal Care and Use Committee (IACUC) approval required prior experimentation.)
  - Qualified Scientist Form (2) (Required for all vertebrate animal projects at a regulated research site or when applicable)
- Potentially Hazardous Biological Agents** (Requires prior approval by SRC, IACUC or Institutional Biosafety Committee (IBC), see full text of the rules.)
  - Potentially Hazardous Biological Agents Risk Assessment Form (6A)
  - Human and Vertebrate Animal Tissue Form (6B)—to be completed in addition to Form 6A when project involves the use of fresh or frozen tissue, primary cell cultures, blood, blood products and body fluids.
  - Qualified Scientist Form (2) (when applicable)
  - Risk Assessment Form (3) Required for projects involving protists, archae and similar microorganisms and for projects using manure for composting, fuel production or other non-culturing experiments (6A, 6B and 2 are not required)
- Hazardous Chemicals, Activities and Devices** (No prior approval required, see full text of the rules.)
  - Risk Assessment Form (3)
  - Qualified Scientist Form (2) (required for projects involving DEA-controlled substances or when applicable)

\_\_\_\_\_  
Adult Sponsor's Printed Name

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date of Review

\_\_\_\_\_  
Phone

\_\_\_\_\_  
Email

# HSSEF 2011-2012 Assistance Received Form

- To be completed by ALL STUDENTS and attached to the exhibit before judging at all science fairs.
- Circle the number that is closest to the amount of help you received in each area. If the description does not apply to a display project, then circle NA (not applicable).

## Overall Assistance Scale:

0 Entirely by myself.	1/4	1/2	3/4	1 Entirely by those who assisted me.
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Area	Amount of Assistance					
1. Idea for project	NA	0	1/4	1/2	3/4	1
2. Decision on how to solve the problem	NA	0	1/4	1/2	3/4	1
3. Design of experiments	NA	0	1/4	1/2	3/4	1
4. Performing the experiments	NA	0	1/4	1/2	3/4	1
5. Organization of the data	NA	0	1/4	1/2	3/4	1
6. Interpretation of results	NA	0	1/4	1/2	3/4	1
7. Conclusions	NA	0	1/4	1/2	3/4	1
8. Written report on the project	NA	0	1/4	1/2	3/4	1
9. Construction of display board	NA	0	1/4	1/2	3/4	1
10. Lettering on display board	NA	0	1/4	1/2	3/4	1
11. Arrangement and design of display board	NA	0	1/4	1/2	3/4	1
12. Charts, diagrams, sketches on display board	NA	0	1/4	1/2	3/4	1
13. Wording on the display board	NA	0	1/4	1/2	3/4	1

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**Fold this bottom part under and tape to your exhibit table.**

Fair Exhibit Number: \_\_\_\_\_

Project Title: \_\_\_\_\_

I / We certify that the above information is correct.

\_\_\_\_\_  
Student Signature(s)

\_\_\_\_\_  
\_\_\_\_\_

# HSSEF 2011-2012 Abstract Form

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Exhibit # at State \_\_\_\_\_

This form is required for **all RESEARCH projects**. Please **TYPE or PRINT LEGIBLY**.

The abstract should have a brief summary of your problem, how the problem was studied, what you found out, and what your findings mean.

Name \_\_\_\_\_ Grade \_\_\_\_\_

2nd Team Member \_\_\_\_\_ Grade \_\_\_\_\_

3rd Team Member \_\_\_\_\_ Grade \_\_\_\_\_

School \_\_\_\_\_

Title of project \_\_\_\_\_  
\_\_\_\_\_

Subject Category \_\_\_\_\_

**Summarize** your project in 150–250 words, single-spaced.