

## Northwest Science Expo System—High School Participation

High school students are required to qualify for the Intel Northwest Science Expo by placing in the top third of projects at a regional fair. Students present posters describing their hands-on science inquiry and engineering projects to judges. Online registration and physical copies of the forms are required by February 19th or sooner depending on the regional fair. Students may work in teams of up to three, but may only present one project at a single Regional fair. Intel NWSE for high school students is April 8, 2016 at Portland State University. All regional fairs and Intel NWSE select projects to compete at the Intel International Science and Engineering Fair in May.

### Online Registration

An Adult Sponsor (AS) is required to register online at [www.affiliatedfairs.org](http://www.affiliatedfairs.org). The adult sponsor is usually a teacher or parent, the AS is responsible for adding each project online, communicating with the student and mailing copies of the forms to the fair. 95% of fair communication is done through email. Once the project is added by the AS, students receive their Exhibit # and password so they may edit their own forms.

### Rules and Paperwork

All high school projects are required to use the Intel ISEF forms. At minimum this means Forms 1, 1A, 1B and a written Research Plan with signatures dated before experimentation starts. The numbered forms can be printed from online registration.

Projects involving human subjects, vertebrate animals, potentially hazardous biological agents (microorganisms, rDNA, tissues) and radiation greater than 10 kvolts must be approved by a Scientific Review Committee or Institutional Review Board at the school or facility the experimentation will be taking place **BEFORE** experimentation is started.

The complete International Rules are available at the Intel ISEF tab on [www.nwse.org](http://www.nwse.org). Make sure to read them carefully before starting your project.

- ◇ Regulated Research Institution (1C): This form is only needed if the research was done at a research institution (university lab, for example) or in an industrial setting, but is not completed for work done at a high school.
- ◇ Qualified Scientist (2): On this page, the scientist explains what will be done to oversee this project.
- ◇ Risk Assessment Form (3): Required for projects using hazardous chemicals, activities or devices, and some PHBA's including protists, composting, coliform test kits, and decomposition of vertebrate organisms.
- ◇ Human Subject and Informed Consent (4): This page, along with the research plan, explains to the IRB how the safety and well being of the test subjects and the confidentiality of results will be ensured.
- ◇ Vertebrate Animal Form (5A): Required when the experiment is conducted in a Non-Regulated Research Site such as home or school and describes the housing and care for the animals.
- ◇ Vertebrate Animal Form (5B): Required when the research is conducted at a Regulated Research Institution and describes the study. A copy of the IACUC approval must be attached.
- ◇ Potentially Hazardous Biological Agents (6A): Required for all research involving microorganisms, rDNA and fresh/frozen tissue, blood, blood products, and body fluids.
- ◇ Human & Vertebrate Animal Tissue (6B): Explains the source of the tissue, 6A also required.
- ◇ Continuation/Research Progression Projects Form (7): If the current project is in a similar area of research as any previous project of the student or any team member, it is considered a continuation.



**Form & registration questions should be directed to:**

Stephanie Jones,  
Intel NWSE fair director  
Email: [nwse@pdx.edu](mailto:nwse@pdx.edu)

**[www.nwse.org](http://www.nwse.org)**

### Project Categories:

Animal Science  
Behavioral & Social Sciences  
Biochemistry  
Cellular & Molecular Biology  
Chemistry  
Computer Science & Robotics  
Energy and Environmental Engineering  
Engineering: Electrical & Mechanical  
Engineering: Materials & Bioengineering  
Environmental & Earth Sciences  
Mathematics  
Medicine & Health Science  
Microbiology  
Physics & Astronomy  
Plant Science