

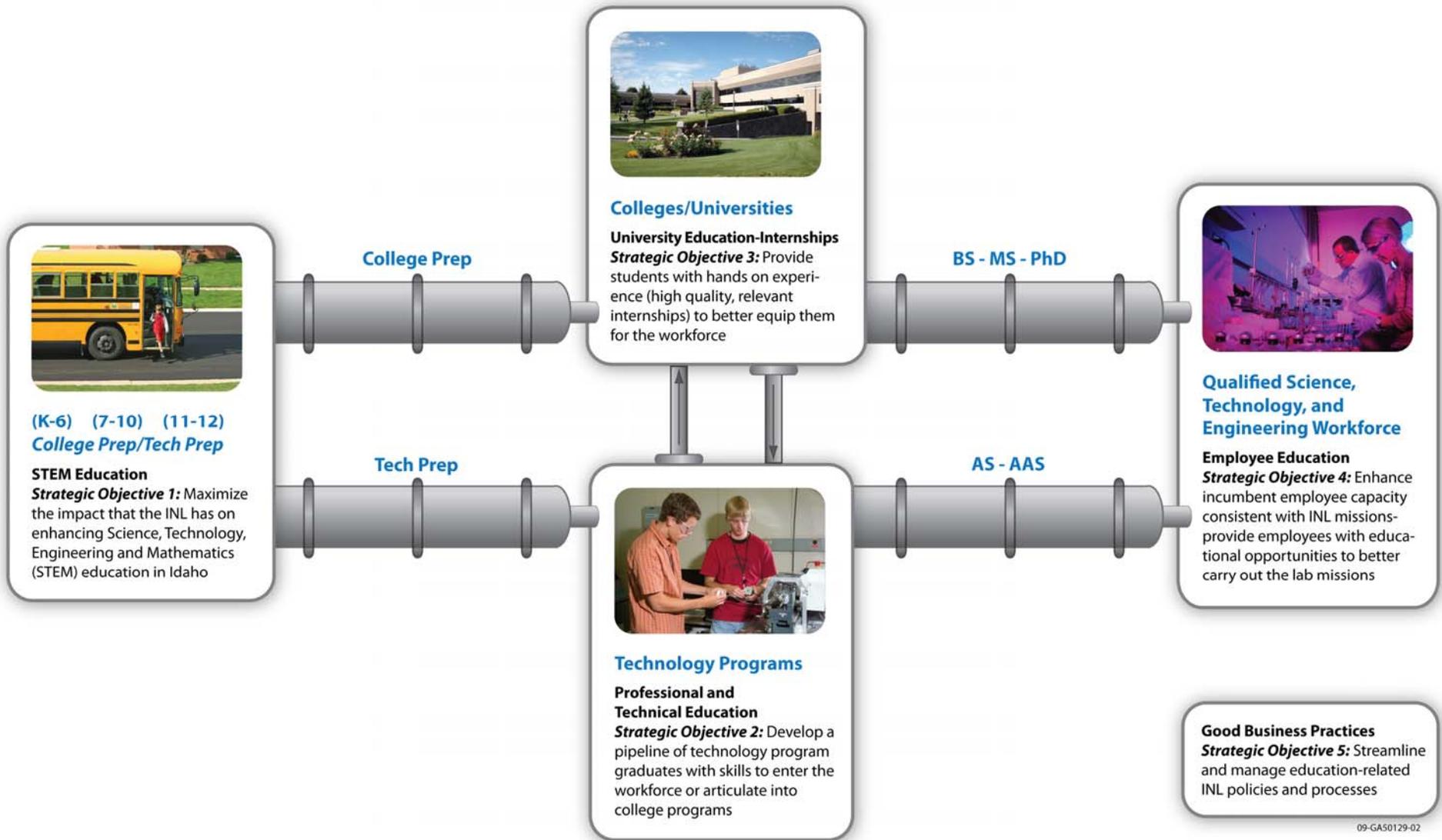


Idaho National Laboratory

INL- Opportunities for Teachers

**Melinda Hamilton
Director of Education
Programs**

Pipeline to the Workforce of the Future



What Skills do the Next Generation of the Workforce Need?

- *Integration of Science and Math*
- *Engineering and Math Concepts*
- *Physical and Life Sciences*
- *Technology- Application of Concepts*
- *Critical Thinking Skills*

STEM is not just a selection of courses- it is a way of teaching!

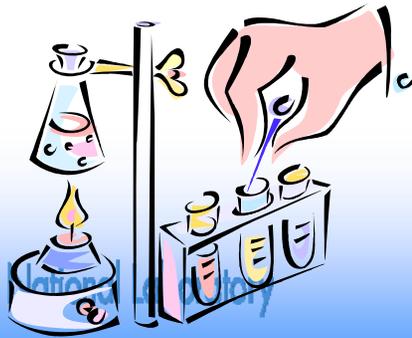
STEM Education

- Provide Resources and Professional Development to Teachers

One teacher touches 30 elementary students or as many as 150 secondary students each year



- Expand, leverage, and communicate student STEM enrichment activities



INL has unique resources in its people!

Teacher Internships- Hands on Lab Experience for Teachers

- **Teaming Teachers with INL**

8 week paid summer programs

Focused on applying science, math and technology concepts that are linked to the courses taught

www.inl.gov/education>K-12 Programs>

- **Pre-service Teacher Internships**

DOE Office of Science Sponsored-

<http://www.scied.science.doe.gov/scied/pst/about.htm>

INL contact: Brenda.Greenhalgh@inl.gov

Bring Science into the Classroom

- **Mini Grants and Technology Awards-**

Awarded State wide annually

Open to public, private, elementary, middle school and High School STEM programs

Mini grants up to \$2000

2 school grants up to \$10,000 awarded for Science Lab Grant

2009 we awarded over \$90K through this program

Categories: Special Projects, Technology or Lab Equipment, Professional Development

Applications on line

www.inl.gov/education_programs>k-12_programs>mini_grants_program

Bring Technology into the School

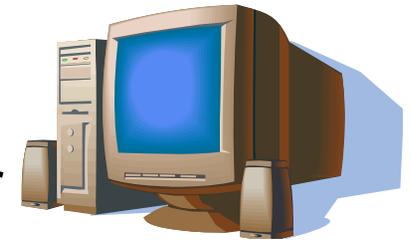
- **Education Transfer Program**

Math and Science Equipment Gift Program on behalf of the Department of Energy, Idaho (DOE-ID)

Excess functioning federal computers and related educational equipment (including printers, modems, servers and routers, and equipment used for technology education)

ISDE generates list of recipient schools and appropriate distribution

[www.inl.gov/education>K-12Programs>Education Transfer Program](http://www.inl.gov/education>K-12Programs>Education%20Transfer%20Program)



Offer Professional Development Opportunities

- **Workshops and Academies that enable INL missions**

Hands on experience- project based

Access to expert scientists and engineers

Continuing education credits

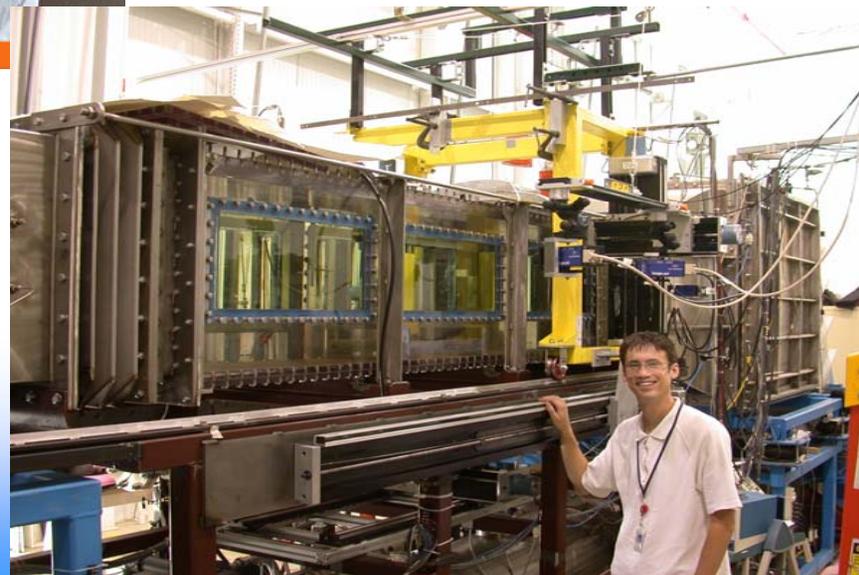
Classroom kits to enable transfer of knowledge to students

Support to Professional Societies

www.inl.gov

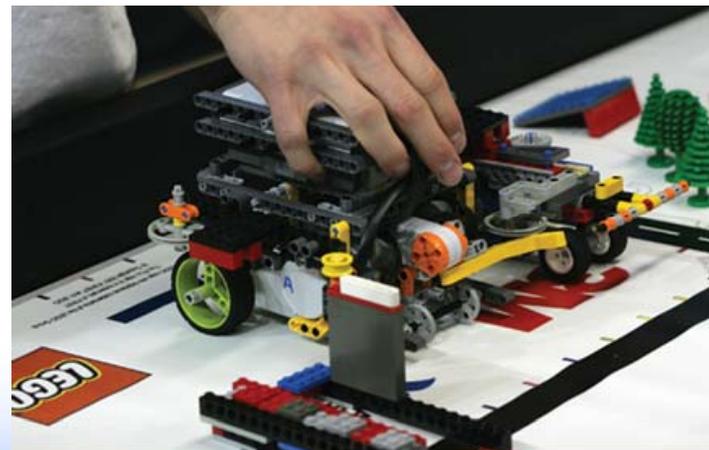
Search for Teacher workshops

Help Teachers by Providing Students With Opportunities to Learn



Expos and Competitions- Teachers and Students Having Fun and Learning Together

- Discover Engineering Day at BSU
- NNU Science Expo
- Scholastic Tournament
- First Robotics
- PLTW
- Discovery Center of Idaho
- E Girls and Engineering Camp
- Leonardo on Wheels



What is **FIRST** LEGO League?

[click for video](#)

H.S. Student Internships- Real Experiences for the Students

- **Student Action Teams**

Students work in teams that conduct research, carry out work-based projects, and solve real-world problems.

A team may consist of junior and/or senior high school students, a pre-service or practicing teacher, and a technical mentor from the laboratory.

Students must be 16 or older

Students must be enrolled in an education program as defined by the State of Idaho

Students must be US citizens or Permanent Residents

Financial Support for Students- Paving the Way for Higher Education

- **Scholarships**

Lou Milam Scholarship

Governors

EITC Scholarship fund

GIANTS

- **Tuition for AP college credits**



What's on the Horizon?

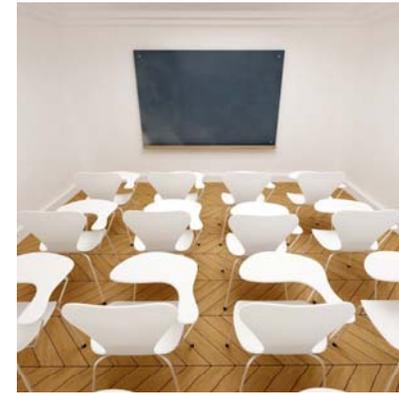
*How many
and where?*

- **STEM Teacher Development and Resource Centers**

- **Industry**
- **State Agencies**
- **Professional Organizations**
- **Idaho Universities**
- **Teachers and Administrators**

*What should
the focus be?*

*How do we
ensure
classroom
follow up?*



How would it run?

*What resources do we
already bring to the
table?*

*How do we
bring in rural
teachers and
schools?*

INL Education Programs Website

INL Idaho National Laboratory

The Energy of Innovation

Developing Our Future
Our mentor program gives high school and college students a preview of the many possible career paths at the lab.

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Center for Advanced Energy Studies
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Nuclear Energy
Idaho National Laboratory
2025 Westcott Avenue
State Falls, ID 83415
800-439-1441

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K-12 Programs
Emerging Science
INL's K-12 programs bring science to life for students.
More

Internships
Start a Career
INL offers a variety of internships that give students opportunity to career decisions.
More

Energy Workforce Development
Training the Next Generation
INL is preparing young people to take on the nation's energy challenges.
More

Teachers
click here

Students
click here

Education
INL has a long history of support for education. The primary objective of INL's Education Programs is to provide educational and laboratory-related research activities. Working with students and faculty over the entire education continuum, INL Education Programs helps ensure a future work force that will carry on the long-term mission of INL.

Education News & Accomplishments
INL, technical college, foundation sponsor elementary school summer camps
June 4, 2009
INL's internship program ranked among best in nation
May 28, 2009
North Idaho schools receive INL grants for K-12 projects
May 20, 2009
Southern Idaho schools receive INL grants for K-12 projects
May 20, 2009
Eastern Idaho schools receive INL grants for K-12 projects
May 18, 2009
Regional youth learn, play and win scholarships at Idaho National Laboratory sponsored Physical Day
May 14, 2009
Science teachers recognized as GIANTS
May 7, 2009
\$4 million in scholarships awarded at 2008 Hispanic Youth Symposium
April 28, 2009
Students match wits at the 2009 INL Scholastic Tournament
April 13, 2009

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