

Idaho National Laboratory

K-12 Education Programs

Ensuring tomorrow's STEM workforce

OUR MISSION:

The mission of INL's K-12 Education Program is to build a strong STEM foundation for all students by inspiring Idaho's future STEM workforce; impacting students, teachers and families through the integration of best practices in STEM education; and empowering employees to become STEM mentors.

OUR GOALS:

STEM FOR ALL

Cultivate the Idaho STEM landscape by leveraging partnerships and resources to grow STEM opportunities for all.

PREPARED WORKFORCE

Help align Idaho's students with future workforce needs and equip them for rewarding careers in STEM.

EMPLOYEE ENGAGEMENT

Increase employee engagement by creating meaningful opportunities with INL's STEM programs.

HOW WE ENGAGE:

Our team works with students, teachers and families across Idaho at STEM nights, in classrooms and schools, and through other community events. In addition to supporting activities through in-kind donations, we administer over \$300,000 in STEM grants each fiscal year. We also provide resources to schools and families to help them reach students across the state.

We believe that some of the best STEM learning happens in informal settings. That's why we partner with the Museum of Idaho, the Idaho Falls Zoo, the Idaho Falls Public Library, the Girl Scouts of Silver Sage, United Way, the YMCA, and a range of other summer camps, afterschool programs, and extracurricular learning programs to reach students where they are.

OUR IMPACT: 2019



41,000
students impacted



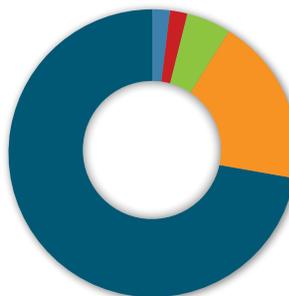
198 outreach
activities participated in



>\$300,000
granted on behalf of
Batelle Energy Alliance

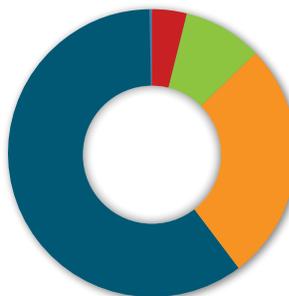


115 employees helped
in engaging with their
communities in STEM



STEM Events by Program Type

- STEM Awareness
- STEM Career Interest
- STEM Career Choice(s)
- STEM Learning & Achievement
- STEM Self-efficacy



STEM Events by Targeted Demographic

- All Students
- Rural & Remote
- Racial/Ethnic Minority
- Female Only
- At Risk

WHAT WE PROVIDE:

To learn more about these opportunities and request support, visit our website: stem.inl.gov

STEM SUPPORT

INL provides guidance, materials and STEM professionals to support your STEM events. We can help you find activities, send volunteers to educate students or make sure you have what you need to make your STEM event a success. Examples of events include family and community STEM nights, classroom lessons, career fairs, demos across STEM topics for all age ranges, booths, activities, interactive lessons from our tour guides on topics from the history of nuclear to the future of clean energy, and much more. Learn more and request support at our website.

K-12 GRANTS

On behalf of our operator, Battelle Energy Alliance, INL is proud to grant over \$300,000 to Idaho educators each year. With five categories, we can help match you with the right opportunities. Classroom grants, Community STEM and Career Awareness grants, and Impact grants are available each autumn. Competition grants and Out-of-School grants open each winter. For more details and availability, visit our website.

RESOURCE LIBRARY

Our comprehensive online resource library provides access to INL's STEM flipbooks in English and Spanish. Additional resources are categorized for educators, students and families for easy browsing. From lesson plans to activities to parent guides, there is something for every STEM enthusiast.

EMPLOYEE ENGAGEMENT

Our STEM ambassadors bring their vast science, technology, engineering and math experience to students across the state. Our website provides a portal for INL employees to get engaged and helps our team pair STEM mentors and volunteers with students and events for the most impact. STEM Ambassadors can serve as judges, mentors, speakers and more.



STEM KITS

With access to a library of STEM materials, we work to pair STEM kits, lesson plans and other resources with STEM programs in need. Make a request for STEM supplies for schools or community groups at our website.

IF YOU CAN SEE IT, YOU CAN BE IT!

Students need to be able to envision themselves in a fulfilling STEM career by meeting STEM professionals who look like themselves, come from their communities and speak their languages. Many INL Education programs are designed to reach traditionally underserved populations including rural students, female students, and ethnic or racial minorities. These events include **My Amazing Future** for eighth-grade girls, the American Indian Services Pre-Freshman Engineering Program, **Family Nuclear Science Night**, and other career fairs and exploration opportunities. **Be the Inspiration**, in collaboration with the YMCA and United Way, brings STEM role models into after-school programs to empower students to be engaged members of the community.

CREATING TOMORROW'S PROBLEM SOLVERS

INL supports programs designed to engage students in experiential learning opportunities so that they can become tomorrow's problem solvers. The new **INL Coding Coalition** commits funding, materials and STEM ambassadors to extracurricular clubs that commit to engaging students in coding or computer science activities. We also support regional science bowls, Idaho Science and Space Scholars, Invention Conventions, and Idaho Science and Engineering Fairs.

FOR TEACHERS

INL's **Partnering Teachers** program allows us to team with educators across eastern Idaho on curriculum, events and other opportunities. Interested teachers should visit our website for more information on joining the program. INL is a proud supporter of the annual Industry's Excellent Educators Dedicated to STEM (INDEEDS) Award program and the i-STEM program. Coming on June 19-20, 2020, we are proud to host the first **INL Teachers as Leaders Summit**.

COMING SOON

Exciting program developments for 2020 and beyond are in the works. Among other forthcoming opportunities, we are developing a big stage STEM show to take to schools and events. We are also working on launching an engineering design challenge to engage Idaho students in real-life challenges. Our Nuclear Science and Technology STEM trailer will soon be visiting students across eastern Idaho to bring interactive exhibits and demonstrations right to their door. Our Rural STEM Revolution will provide resources and access to quality STEM programs to even the most remote learners.

STEM.INL.GOV