Fabricating the Future

WHAT HAPPENS WHEN YOU MIX STUDENT INNOVATION WITH 21ST CENTURY SKILLS?

Idaho students competing in the 2019 FabSLAM Showcase identified a natural resources problem in their community that could be addressed using 3D printing and digital fabrication to then develop and document a product to help resolve it. The teams presented their solutions to a panel of judges and a public audience for review and feedback. The program engages youth in identifying, designing, prototyping, testing, and iterating solutions to real-world problems.

TEAM “THINK TANK” FROM THE NEWCOMER CENTER AT ROBERT STUART MIDDLE SCHOOL IN TWIN FALLS won first place in the Idaho STEM Action Center’s 2019 Eastern Idaho FabSLAM Showcase Students grades 6-8 who emigrated from Chad, Uganda, Tanzania, and Mexico created a solution to address the need to prevent mud homes in Sudan and Uganda from being destroyed by rain. Team Think Tank designed a rain diversion and catchment system comprised of an awning, gutter, water pipe, and storage tank to protect homes during the rainy season and collect the water for use during the drought season. In addition to bragging rights, the students won a 3D printer and a $200 cash prize for their classroom.

TEAM “FERN WATERS” FROM UPPER CARMEN CHARTER SCHOOL NEAR SALMON took second place and won $300. Students designed and created a digital library of wild and domestic animal tracks to help their fellow students develop greater knowledge and appreciation of local wildlife in their area, which is located in a river valley bordering a national forest.

IDAHO STEM ACTION CENTER hosts three competitions statewide with 42 participating organizations. Student STEM competitions are important to the future of Idaho, because STEM knowledge and skills are needed for critical and creative thinking, problem solving, innovation, and collaboration.
We build STEM through:

**EDUCATOR ACCESS**
- to STEM professional development **THROUGHOUT IDAHO**
- **36,000 EDUCATOR INTERACTIONS**

**WORKFORCE**
- development-focused partnerships with **INDUSTRY** and **UNIVERSITIES**
- **8,000 STEM EDUCATION interactions through communities and businesses**

**Student STEM COMPETITIONS**
- and camp support
- **500,000 STUDENT INTERACTIONS**

Today’s students will be tomorrow’s workforce, and STEM AC has been created to develop the STEM-skilled talent that Idaho employers need.

**TODAY’S EFFORTS. TOMORROW’S SUCCESSES.**
Industry participation is essential for success, and we’re here to help make that participation easier. We’ve created many ways for Idaho businesses to engage with STEM education. From mentoring and volunteering to donating and partnering, you can help move the economy forward by closing the gaps in Idaho’s workforce. Let us help you help Idaho!

**LEARN MORE**
To learn more about the STEM Action Center’s strategies, success stories, and positive impacts in your community, email: admin@stem.idaho.gov.

**INDUSTRY PARTNERS**
- Idaho National Laboratory
- Micron
- Simplot
- INL
- POWER ENGINEERS
- Idaho Central
- Cable One
- Dutch Bros

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