



STEM ACTION CENTER PROJECTS AND PROGRAMS

Idaho STEM Action Center is providing professional development opportunities and grants for educators and supporting student competitions during the 2015-2016 school year.

The following activities support the Idaho STEM Action Center's mission to connect STEM education with industry partners while promoting the latest innovations in specialized STEM-related disciplines.

2015 - 2016 School Year

PROFESSIONAL DEVELOPMENT

- Idaho Math & Science Teachers Conference
- FABSlam ~ 3D Design and Fabrication workshop for educators
- Digital Library Access for Higher Education ~ Lesson plans for Math and English Language Arts (ELA)
- i-STEM Teacher Institutes ~ Idaho educator courses in STEM workshops held in June
- INDEEDS Award ~ Recognizing Industry's Excellent Educators Dedicated to STEM

COMPETITIONS

- FIRST Robotics ~ Student teams build robots and compete in a variety of events
- Khan Academy's LearnStorm ~ Students grades 3 – 12 hone math skills and practice grit and determination
- FABSlam ~ National 3D Design and Fabrication competition for middle school youth
- Invent Idaho ~ Premier student invention program in the Northwest for grades 1 - 8

GRANTS

STEM Educator Projects ~The Idaho Stem Action Center received 104 PK12 STEM Grant applications and funded 23 innovative STEM education projects. A total of \$48,000 was awarded to support projects including the following: high school dronology; school library makerspace; STEM camp for the blind & visually impaired; and aquaponics in a rural elementary school.

Family STEM Event Grants ~ Family STEM Event grants are an opportunity to provide an engaging family activity while promoting STEM learning. The Family STEM Event Grant category will support 25 events up to \$1,000 each for a total of \$25,000.

ADDITIONAL GRANT FUNDING

Additional grant funding opportunities can be accessed on the STEM Action Center website: STEM.IDAHO.GOV.



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Idaho STEM Action Center plans to support all of the existing 2015 – 2016 activities and has identified the following NEW opportunities for 2016-2017 as funding allows.

ADDITIONAL OPPORTUNITIES IDENTIFIED 2016 - 2017 SCHOOL YEAR

PROFESSIONAL DEVELOPMENT

- Intel Science and Engineering Fair (ISEF) Professional Development for educators interested in implementing ISEF in their classrooms
- Computer Science Professional Development and workshops for educators
- Computer Science Workforce Training and workshops

COMPETITIONS

- Intel Science & Engineering Fair (ISEF) Student Grants for materials to ensure students can participate
- ISEF Student Travel Grants for students to attend the statewide event

GRANTS

- Expanding the PK12 Grant Program is a high priority for the STEM Action Center. The STEM Action Center received 104 applications requesting \$250,000 this year; however, only 23 projects for a total of \$48,000 were funded due to current funding levels.
- Family STEM Events will expand if the need and interest exist, as demonstrated by data collected in year one.
- Partnering with industry to implement meaningful Internship & Mentorship Programs will be a major objective for the Center.

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PROFESSIONAL DEVELOPMENT

- Idaho Math & Science Teachers Conference
- FABSlam 3D design and fabrication workshop
- Digital Library Access for Higher Education
- i-STEM Teacher Institutes
- INDEEDS STEM Educator Award

COMPETITIONS

- FIRST Robotics ~ student teams build robots
- Khan Academy's LearnStorm ~ hone math skills and practice grit and determination
- FABSlam ~ National 3D design and fabrication competition
- Invent Idaho ~ Premier student invention program

GRANTS AWARDED

- \$75,000 PK12 STEM & Family STEM Event Grants
- \$50,000 FabSlam 3D design training
- \$50,000 FIRST Robotics Regional Competition
- \$15,000 Student Travel Grants



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