Purposes of the Center as dictated in §67-823

- Conduct STEM needs analyses of industry and education
- Identify and coordinate K-16 STEM education activities focused on workforce needs
- Engage industry to support STEM education outcomes
- Support high-quality professional development for educators
- Serve as a STEM research and resource center
- Support student STEM competitions
- Highlight innovative STEM practices
- Support STEM pilot projects
- Support traditional underrepresented population in STEM
MISSION

Connecting STEM education and industry to ensure Idaho’s long-term economic prosperity.

VISION

Produce a STEM competitive workforce by implementing Idaho’s K-Career STEM education programs aligned with industry needs.
Idaho is expected to see robust job growth

Between 2014 and 2024 in Idaho

STEM jobs will grow

17%

All other jobs will grow

16%

▲ 14% Computing
▲ 9% Engineering
▲ 23% Advanced Manufacturing

STEM Jobs in Idaho Pay Well

Median earnings in Idaho STEM jobs are:

$32.13 /hour

Median earnings in Idaho all other jobs are:

$15.59 /hour

Unclaimed STEM Labor Wages in Idaho

Median STEM Wage $32/hr

3,800 STEM Jobs Unfilled

$254M Unclaimed Labor Wages Annually

Source: Idaho Dept. of Labor
Turn Knowledge Into Action!
Impact In First 8 Months

$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

OVER 200 BUSINESSES

OVER 1,200 EDUCATORS

OVER 8,000 STUDENTS
December 2015

• 104 applicants with over $250,000 in need
• 23 grants of up to $2,500 awarded
• Idaho Math and Science Conference
• i-STEM Teacher Institutes
• FABSlam – 3D Fabrication Professional Development
• Digital Library Access for Higher Education

Professional Development $90,000
Occurred March 14 – 16, 2016 at Discovery Center

• 65 applicants in one week
• 15 educators selected
• FIRST Robotics Regional Competition & Student Travel Grant
• Invent Idaho Sponsor
• Khan Academy’s LearnStorm Math Event
• FABSlam – 3D Fabrication Competition – TOMORROW at DCI

Student Competitions - $90,000
Family STEM Events Encouraging Community Engagement

• $24,000 from Tesoro and $10,000 from Micron to fund 36 Family STEM events

• Supported Hour of Code
Educators are eager to host Family STEM Events

- 45 applicants
- 36 were selected
Idaho STEM Educators of the Year - $8,000

INDEEDS Award – Industry's Excellent Educators Dedicated to STEM

✦ Annual Elementary and Secondary Award ✦
The Future

FY2017
Projects and Programs
$2M for STEM

$100,000
• Conduct needs and gap analyses of industry and education
• STEM Action Center program evaluation

$275,000
• K-16 STEM education
• Coordinate workforce needs with K-16 STEM education

$150,000
• Database creation
• Professional development, competitions, grants, scholarships and resources for educators and workforce

CUMULATIVE TOTAL: $525,000

FY 17, DU #1, LBB 6-121
Projects and Programs
$2M for STEM

$500,000
• Support high-quality STEM professional development
• Support scholarships for STEM education or training

$250,000
• Support PK12 STEM grants for educators
• Includes resources and curricular materials

$100,000
• Support community STEM events
• Encourage community engagement and industry involvement

CUMULATIVE TOTAL: $1,025,000

FY 17, DU #1, LBB 6-121
Projects and Programs
$2M for STEM

$250,000
- Intel Science & Engineering Fair (Post-secondary & industry)
- Grant for students

$250,000
- National competitions
- FIRST Robotics, Invent Idaho, Science Olympiad
- Other competitions

$125,000
- Engage industry to support mentorship & internship programs
- Create actionable database connecting educators & industry

CUMULATIVE TOTAL: $2,000,000

FY 17, DU #1, LBB 6-121
Computer Science Initiative
Governor’s Recommendation

$2M from STEM Education Fund provides the opportunity
to address pressing workforce needs including Kindergarten
through Career computer science
Idaho Ranks 49th in Women Earning Computer Science Degrees

Number of computing degrees/certificates in Idaho

Collaborate to Support Idaho Educators

$250,000
Support CS endorsements and training through scholarships and incentives

$250,000
Support PD for educators
Support resources for schools through grants

$500,000
Support online CS resource portal
Support curricular materials linked to K-12 CS Standards
Support grants for software and devices

TOTAL: $1M
Collaborate to Support Idaho’s Workforce

Work with Idaho’s Post-Secondary Institutions

- Develop CS training and courses for workforce
- Provide incentives for training including certificates & credentials
- Work with industry & post-secondary to provide incentives for mentorship & internship programs

CUMULATIVE TOTAL: $2M
Questions or Comments?
Contact Information

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