



Idaho State
University

Ignite Their Future STEM Initiative

Our Mission:

Building a community of support for STEM education among educators, students, parents, and industry.

Key Aspects

- **STEM Enrichment Activities**
 - Enrichment activities will be formally coordinated with secondary educators and their students throughout the school year. Technical instructors will engage with students in-person and remotely. Technical instructors will deliver content related to their area of expertise and the curriculum students are learning in school.
- **In-Person STEM Summer Camp**
 - The summer camp provides K-12 teachers the opportunity to learn new STEM technology and then apply their new knowledge and skills as they support the STEM Summer Camp. This fosters collaborative relationships between K-12 educators and technical instructors. The students benefit from a fun hands-on experience that is facilitated by technical instructors and taught by K-12 teachers. Parents and industry partners come in at the end of the camp to interface with students and see the projects that were completed.
- **Online STEM Summer Courses**
 - These courses provide an opportunity for rural and remote students to have a fun and engaging hands-on STEM experience. STEM kits are mailed to students a week prior to each course. There are synchronous and asynchronous courses available to students.

Strategic Goals

- Provide ignition experiences for K-12 students
- Provide effective K-12 educator professional development
- Create a successful program that effectively promotes continued education
- Support the growth and reputation of ISU programs as leaders in Engineering and Technology
- Collaborate with other STEM-related activities
- Increase demographic diversity in STEM-related career fields
- Increase STEM opportunity in rural communities
- Community and family engagement
- Collaborate with industry to create a sustainable program

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Key Benefits for Industry

- Industries need skilled employees; college programs need students. The camp forms the relationships required to meet both needs.
- Leverage K-12 industry funds to promote STEM education by facilitating relationships between post-secondary programs, K-12 students, parents, and educators.
- Investment in a program that has a proven track record of successfully meeting measurable goals and providing valuable deliverables.
- Marketing and recruitment efforts for camp attendees can be targeted with the operating regions of industry investors.
- The camp provides a great opportunity for company recognition.
- An opportunity for industry to build relationships with high-performing students.
- Increase community awareness of the impact STEM careers have on society.

Key Benefits for K-12 Educators

- Work directly with technical instructors.
- Unique professional development opportunity where educators not only learn, but they have the opportunity to deliver the content to students.
- Educators work together in teams to develop lesson plans and map strand objectives to state standards.
- Opportunity to receive stipends if they are selected to stay on to help with the camp.
- K-12 teachers will integrate and implement what they learn into their own classrooms.
- Create a network of mentors and support for technology / STEM education in the classroom.

Key Benefits for Parents and their Children

- Opportunity to explore STEM-related career fields through fun hands-on projects.
- Participate in a number of different activities throughout the year.
- Progressive camp strands and courses create stackable learning competencies.
- The adult to student ratio is 1:6 (may vary depending on activity).
- Team building and personal efficiency programs are integrated into activities.
- Kids are taught by K-12 teachers and technical instructors.
- Parents are offered workshops about career opportunities, college programs, financial aid, and overcoming barriers.

Key Benefits for Idaho State University

- Increased student enrollment in post-secondary programs.
- Prerequisite training that increases student engagement, preparedness and retention.
- Increase national awareness of the quality of ISU programs
- Builds relationships with K-12 students, educators, and parents.
- Opportunity for community outreach.
- Strengthen industry relationships.
- Provides ISU students with the opportunity to share their experience and knowledge.
- Support of student organizations like First Robotics.
- Parent workshops allow ISU to overcome misconceptions and barriers.

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2018-2021 Facts and Figures

- The Ignite Their Future (ITF) Initiative
 - Three (3) In-Person STEM Summer Camp 2018/2019/2021
 - One (1) Online STEM Summer Course Series 2020
- Course Statistics
 - 18 In-Person Courses Created / 36 Sections delivered
 - 3 Formal Enrichment Activities during the school year
 - 9 Online Courses Created / 20 Sections delivered
 - 593 STEM Course Seats Filled
- Direct Impact
 - 310 Students
 - 236 Family Members
 - 64 Technical Instructors and K-12 Teachers
 - 43 Industry Guest Speakers
- Average Demographics
 - Age
 - 37% 9th – 12th Grade
 - 63% 4th – 8th Grade
 - Gender
 - 29% female
 - 71% male
 - Ethnicity
 - 70% Caucasian
 - 16% two or more races
 - 5% Asian
 - 3% American Indian/Alaskan Native
 - 2% Black or African American
 - 4% Hispanic
- Camp Cost
 - Enrichment Activities: Free
 - Online STEM Courses: \$15 - \$200
 - In Person Camps: \$99 - \$199
 - K-12 Educator Professional Development: \$15
- Family Engagement
 - Workshops
 - STEM Career Fields
 - STEM Career Opportunities
 - Overcoming Barriers
 - College Preparedness
- Program Revenue and Contributions
 - 2018: \$33,380
 - 2019: \$79,862
 - 2020: \$49,946 (Decreased due to COVID-19)
 - 2021: \$10,000 Carry Over from 2020 + \$36,200 new funds
 - Total: \$199,388

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2022/2023 ITF STEM Goals and Needs

2022/2023 ITF Goals

- Deliver ten (10) formal enrichment activities at six (6) different secondary schools during the 2022/2023 school year
- Deliver six (6) In-Person STEM Summer Camp Strands in summer 2022
- Direct Impact for 400 individuals
 - 350 Students
 - 10 K-12 Educators receive Professional Development
- Implement Idaho SkillStack®
 - Idaho SkillStack® badges clearly communicate an individual's skills to the world. As students participate in these events, they will earn badges that will matriculate into college credit.
- Enter students into ISU Ellucian Recruiter Customer Relations Management System

Donation Needs

- Purchase of supplies and equipment
- Pay stipends to K-12 Educators and Technical Instructors for their time delivering content to students.
- Offset overall costs to keep participation costs low for K-12 educators and students

2022 Contribution Goal

- \$25,000
 - **Tier-1 Sponsor: ≥ \$10,000**
 - **2022 Ignite Their Future Featured Sponsor**
 - Tier-2 Sponsors: \$1,500 - \$9,999
 - Event Sponsor
 - Tier-3 Sponsors: \$500 - \$1,499
 - Camp Strand Sponsor
 - Tier-4 Sponsors: <\$499

Recognition of Sponsors and Donors

Individuals, organizations, and industry supporting the Initiative will receive the following:

- Name/logo printed on camp literature recognized by sponsorship level
- Recognition throughout the camp, and on Family Day at the Awards Ceremony with students and educators
- A reserved booth and presentation time at the career exploration workshop during the camp
- Thanked on University website and social media pages for support

Ways to Contribute

Please visit <https://cetrain.isu.edu/ignitetheirfuture/donate> for details on how to donate.

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