The College of Innovation and Design (CI+D) believes there are compelling reasons for going to, graduating from, and investing in public higher education. We are living in a time however, where segments of society are challenging the notion that going to college leads to more opportunity and a better life. We share concerns about the increasing cost of attendance, the burden of high student debt levels, and lower than desired completion rates for many students nationwide. It is important that higher education institutions seek to address these issues while still producing an educated citizenry prepared to contribute to society.

CI+D views these changes in the perception of higher education as an opportunity to learn, adapt, and deliver new models that are affordable, accessible, and align to students’ stated educational goals. If successful, we can enhance public trust and community confidence in public higher education, deliver student post-graduation outcomes that are universally recognized to be worth the time and money, and empower our faculty to innovate new approaches to research that inform and answer the complex and pressing issues of today and tomorrow.

Our 2018 annual report details specific CI+D initiatives that are designed to meet these new opportunities head-on. Our approach, which invites collaboration from colleges and faculty across campus, is to deliver innovative initiatives that we believe hold the potential to model solutions for positive transformation at Boise State and specific challenges facing higher education. Our work requires both a vision for and a commitment to surmount structural and cultural barriers both inside and outside of the University. We hope you will see many promising examples in this report of how CI+D is working to support Boise State. Thank you for your support and continued trust in the College of Innovation + Design. Go Broncos!

This year, Boise State University was named one of the most innovative universities in the country by U.S. News and World Report.
The blimp (shown here), airplane and rocket (on the cover) were designed and 3D printed by Boise State student, Chris Dagher. Chris is part of the Make It! VIP project (to learn more about VIP, see p.14) and is a University Innovation Fellow (more on p. 21).
CHALLENGES STUDENTS AND UNIVERSITIES FACE NATIONALLY

1 **FAILURE TO FINISH**
Roughly 1 in 2 students who enroll in higher education in America fail to complete their degree in six years.¹

2 **STUDENT DEBT**
Student loan debt is the second-highest form of debt today (behind mortgage debt, but ahead of auto and credit card debt).²

3 **UNDEREMPLOYMENT**
According to a Rockefeller Foundation study of 501 employed recent college graduates, 49% report they didn’t need to go to college to do their current jobs.³ Another study by Accenture found 54% of 2017 college graduates considered themselves to be underemployed in their current jobs.⁴

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¹ “Completing College: A National View of Student Attainment Rates – Fall 2009 Cohort,” National Student Clearinghouse Research Center, November 16, 2016, https://nscresearchcenter.org/signaturereport10/#ExecutiveSummary


In light of the challenges college students face, the College of Innovation + Design seeks to address these issues by striving to:

1. INNOVATE WITHIN THE UNIVERSITY
   Catalyze and launch new programs, pathways and partnerships that transcend the structural and cultural silos of traditional universities.

2. IMAGINE THE FUTURE UNIVERSITY
   Design new models for higher education that address access, affordability and post-graduation outcomes.

5 AREAS FOR IMPACT

<table>
<thead>
<tr>
<th>Area</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCESS</td>
<td>Designed to open up access for all students to benefit from the program or experience.</td>
</tr>
<tr>
<td>AFFORDABILITY</td>
<td>Designed to lower cost and/or reduce debt associated with attending university.</td>
</tr>
<tr>
<td>POST-GRADUATION OUTCOMES</td>
<td>Designed to improve post-graduation employment prospects.</td>
</tr>
<tr>
<td>RESEARCH IMPACT</td>
<td>Designed to showcase research efforts that are answering problems of importance to society and/or increasing student capacity to conduct research.</td>
</tr>
<tr>
<td>CAPABILITY TRANSFORMATION</td>
<td>Designed to innovate and grow internal systems and capabilities in order to increase the operational flexibility of Boise State University.</td>
</tr>
</tbody>
</table>
CONNECTING AND CATALYZING ACROSS THE UNIVERS(ITY)
# TABLE OF CONTENTS

<table>
<thead>
<tr>
<th>Page</th>
<th>Program</th>
</tr>
</thead>
<tbody>
<tr>
<td>8</td>
<td>BSX: Boise State X, Subscription-based education</td>
</tr>
<tr>
<td>9</td>
<td>GIMM: Major in Gaming, Interactive Media and Mobile Technology</td>
</tr>
<tr>
<td>10</td>
<td>WORK U: Professional mentorship opportunities with local employers</td>
</tr>
<tr>
<td>11</td>
<td>LEAD: Certificate focused on leadership and human relations</td>
</tr>
<tr>
<td>12</td>
<td>HES: Human-Environment Systems, a transdisciplinary team of environmental research faculty</td>
</tr>
<tr>
<td>13</td>
<td>DE: Design Ethnography, a certificate that uses ethnography to inform human-centered design</td>
</tr>
<tr>
<td>14</td>
<td>VIP: Vertically Integrated Projects, hands-on research with faculty mentorship</td>
</tr>
<tr>
<td>15</td>
<td>DT: Design Thinking, creative problem solving methods</td>
</tr>
<tr>
<td>16</td>
<td>B2C: Bridge to Career, professional development courses</td>
</tr>
<tr>
<td>17</td>
<td>HBX: HBX COREs Immersion at Boise State, Harvard Business School credential of readiness</td>
</tr>
<tr>
<td>18</td>
<td>VC: Venture College, entrepreneurship development center</td>
</tr>
<tr>
<td>19</td>
<td>IEC: Idaho Entreprenüer Challenge, startup competition for Idaho students</td>
</tr>
<tr>
<td>20</td>
<td>NEW!: Emerging Initiatives: eSports, Designing Your Life, University Innovation Fellows</td>
</tr>
</tbody>
</table>

Read on for more details about each initiative!
Boise State X

In a collaboration with Extended Studies and The College of Arts and Sciences, Boise State University and inaugural partner CapEd Credit Union are rolling out a unique program that will enable more than 75,000 Idaho-based credit union members to pay a monthly subscription rate for online college courses, allowing them to earn a college degree or certificate at a significant cost savings over traditional tuition.

By delivering a college degree that is affordable, targeted to individual career needs and accessible across the state, the program addresses several of the most pressing challenges facing Idaho higher education today — combating cost and student debt, delivering skills and competencies employers are demanding, and boosting Boise State’s efforts as a leader in moving Idaho toward its goal of ensuring that 60 percent of adults between 25 and 35 have a college degree or certificate.

Through the public-private partnership with CapEd, credit union members and employees can customize the amount of time and money they spend on their education with two subscription tiers — Up to 6 credits or up to 9 credits per term at two different monthly rates.

To become a partner organization, or to learn more about BSX please contact:

Rebecca Morgan, Director
(208) 426-3721
rebeccamorgan1@boisestate.edu

cid.boisestate.edu/bsx

HIGHLIGHTS

Passport to Education was approved by Idaho State Board of Education in June 2018

Inaugural partner CapEd gives 75,000 Idahoans access to Passport to Education

Bronco ReConnect campaign launch: degree completion program for former Boise State learners
GAMES, INTERACTIVE MEDIA AND MOBILE TECHNOLOGY

The GIMM major prepares students with the skills and experiences necessary to execute work in technologies required for managing work and professional lives such as: websites, online tutorials, mobile applications and smart devices. GIMM students will graduate with the knowledge to produce and manage innovative hardware and software experiences for the front-end user. GIMM students design and build mobile applications, virtual and augmented reality learning environments, and new devices within the Internet of Things. GIMM has already received national recognition for its work and actively seeks partnerships with business both in and out of the Treasure Valley.

To learn more, please contact:

Dr. Anthony Ellertson
Faculty Director
anthonyellertson@boisestate.edu

cid.boisestate.edu/gimm

HIGHLIGHTS

263 enrolled students for 2017-18 academic year

Dr. Ellertson hosted industry partners Wolters Kluwer and ATI Publishing regarding development of nursing VR tool created in collaboration with Boise State’s nursing program and 16 other universities

Partnership with Apple’s corporate teams to implement SWIFT curriculum at both college and high school levels

In partnership with Idaho Power, GIMM created the first 360 video of Hells Canyon

Industry projects have brought in over $100,000, used to employ 21 students to create artifacts for industry and student portfolios

Students created Augmented Reality and Virtual Reality projects for Boise State’s World Museum and the J Curtis Earl Museum

AREAS FOR IMPACT

POST-GRADUATION OUTCOMES

GIMM: Rapid development of new major that meets emerging employer requirements by using a transdisciplinary academic approach.
WORK U PROGRAM

Designed to provide students with professional experiences, independent of their major. Students are matched with opportunities at Treasure Valley employers and spend the semester working ten hours per week alongside a professional mentor. The program provides an opportunity for students to explore and clarify their career goals, build professional resume content, and develop a strong professional network. The class sessions are designed to unpack what the students are learning on the job through interactive workshops, engagement with guest leaders from partner employers, and learn skills that translate directly to success in a professional setting.

To become a partner employer or learn more about the Work U program, please contact:

Debbie Kaylor, Career Center Director
debbiekaylor@boisestate.edu
cid.boisestate.edu/work-u

HIGHLIGHTS

First program initiative to reach maturity and graduation from CI+D to The Career Center

Enrollment and partner employers have increased by 400%
LEADERSHIP CERTIFICATE PROGRAM

The leadership certificate program provides two pathways for developing leadership knowledge and capacity: an in-person option and a fully-online option. These options may be added to any undergraduate major or may be taken as a stand-alone certificate. Both pathways provide skills and perspectives that organizations call for today: teamwork, flexibility, interpersonal skills, and problem solving. Regardless of academic major, students will be primed to be high-integrity change agents in their discipline and in the world.

HIGHLIGHTS

Record number of students declare a LEAD certificate - 254 students

Record breaking enrollments - 621 total enrollments and 533 unique students

Dr. Reeder and her LEAD 327 class were highlighted on ESPN during a Boise State football game as part of “Extra Yard for Teachers Week”

Local media outlets featured the capstone projects of some of our LEAD students. (Examples include Caitie Fredrickson’s The Little Free Pantry project and Bill Schuler’s Meridian Firefighters Chili Cook-off)

WANT TO GET MORE INVOLVED?

• We enjoy having local leaders visit our introductory class and talk about leadership from their perspective. (Prior speakers have included Dave Bieter, Mayor of Boise and Walter Robb, former co-CEO of Whole Foods)

• We are seeking a program sponsor to support funding for more high-quality instructors.

To learn more, please contact:

Dr. Heidi Reeder, Faculty Director leadcertificate@boisestate.edu Twitter: @LEADboisestate
cid.boisestate.edu/leadership
HUMAN ENVIRONMENT SYSTEMS

The Human-Environment Systems team is focused on finding solutions to complex environmental problems. We treasure our natural landscapes and we want economic prosperity, sometimes these important values can be in conflict. We believe that if we conduct science in partnership with the communities that live, work, and play at the Human-Environment interface, we can discover win-win solutions to the great environmental challenges of our time.

JOIN US BY INVESTING IN HES INITIATIVES

$20-40k: Host the Social-Ecological Future of the American West Conference

$100-200k: Collaborative working spaces and labs

$5-20k: Human-Environment Systems speaker series

Please see p.23 for information on how to become a sponsor

HIGHLIGHTS

Graduate student Jenna Narducci and a team of faculty and students from economics, public policy and geosciences, developed population and land use change projections for the Treasure Valley that are helping our community plan for the future.

Hired new faculty member, Kelly Hopping, from the Stanford Woods Institute with expertise in how global change affects ecosystems and livelihoods


Hosted the first Social-Ecological Future of the American West Conference

To learn more, please contact:

Dr. Shawn Benner, Faculty Director sbenner@boisestate.edu

cid.boisestate.edu/hes
DESIGN ETHNOGRAPHY

Design Ethnography is a 12 credit Certificate program that delivers experiential learning in user research geared to support human-centered design. The courses are offered fully online, every seven weeks, to flexibly expedite student progress. Courses incorporate practical exercises, culminating in a Capstone project where students negotiate, plan, and execute a project producing a deliverable for a real world stakeholder. As part of the curriculum, students develop a professional social media profile, expand their professional network, and evaluate their skill-set in relation to current job postings in related fields.

Idaho is still developing an ecosystem of businesses and government agencies incorporating a culture of innovation through design processes. Ethnography provides insights into organizational cultures, customer experiences, and the design process itself. Ethnography is an essential component of quality design work leading to cultures of innovation, organizational change, and outstanding customer experiences. The Design Ethnography Certificate enrolls students internationally but primarily serves Idaho residents, providing them with a tool-kit they can apply in their own communities and organizations.

HIGHLIGHTS

- **Launched a monthly Meetup connecting our students to local business professionals** (128+ members)
- **Record number of students** to declare Design Ethnography certificate
- **Industry projects brought in over $59,000** to employ students to help redesign services to fit community needs

To learn more, please contact:

- Dr. John Ziker, Faculty Director
- Dr. Kendall House, Lead Faculty
  khouse@boisestate.edu

[cid.boisestate.edu/ethnography](cid.boisestate.edu/ethnography)
VERTICALLY INTEGRATED PROJECTS

Vertically Integrated Projects (VIP) provides students access and credits to work alongside faculty as they pursue ambitious research, industry, and community endeavors. Multi-semester involvement is encouraged and students from any major may participate.

VIP courses do not include pre-requisites or applications, and students can start as soon as possible, unlike most internships. In addition, the faculty mentorship at the heart of VIP is one of the most powerful and proven factors in student success after graduation. Through VIP, participating faculty are able to integrate their teaching, research, and service activities, while also supporting the scalability and longevity of their research endeavors.

To become a team mentor or sponsor a project, please contact:

Jillana Finnegan, Director of Programs
jillanafinnegan@boisestate.edu
cid.boisestate.edu/vip

HIGHLIGHTS

Students traveled to NASA Johnson Space Center in Houston, Texas as part of the VIP “NASA Microgravity” team

VIP student in the Plasma Medicine team, Jenna Clingermann, presented her research, developed with the support of her faculty mentor, to the head of the National Institutes of Health during his visit to Boise State

The Make It! VIP project was a component of the Maker Lab at the Boise State Albertsons Library being selected among the top makerspaces in the country to partner on an Institute of Museum and Library Services (IMLS) grant known as “Maker Competencies in the Undergraduate Curriculum”

New project led by Dr. Katie Bubak-Azevedo, Ed.D. (Director of Idaho Positive Behavior Network) which focuses on promoting positive learning environments in rural Idaho

COLLABORATING COLLEGES

COLLEGE OF ENGINEERING
COLLEGE OF EDUCATION
COLLEGE OF ARTS AND SCIENCES
SCHOOL OF PUBLIC SERVICE
DESIGN THINKING

IDEO U is a facet of IDEO, an award-winning global design company that takes a human-centered, design-based approach to help organizations innovate and grow.

IDEO U is an online school that equips individuals with the tools and mindsets necessary to ignite creative confidence and tackle complex challenges.

To learn more, please contact:

Dr. Luke Jones
Faculty Director

cid.boisestate.edu/b2c/design-thinking

HIGHLIGHTS

Partnerships with local organizations and departments and initiatives at Boise State.
Examples include: Interfaith Sanctuary, Beyond the Major, Student Affairs and Enrollment Management

IDeation
Designing with students for students

First IDeation event: a collaboration between campus and community partners seeking to identify and develop solutions for the needs of first-year commuter students. Sponsored by Academic Affairs, Student Affairs and the College of Innovation and Design

GET INVOLVED

- Join the Student-Centered Design team at Boise State University

Contact Luke Jones for more details
BRIDGE 2 CAREER

A degree alone is not enough to open the door to a career - we hear that message from students and employers alike. B2C bridges that gap by providing distinct professional skills, certifications, and experiences so that students can differentiate their degrees and improve employment outcomes for themselves and their employers.

Bridge 2 Career courses seek to narrow the distance between college and career. Courses such as Intro to iOS App Development, Digital Marketing, The Art of Happiness, Applied Personal Finance, and Managing Change in a Knowledge-Based Economy help students learn how to apply their newly-honed academic knowledge and professional skills, gaining the capabilities that business leaders seek in today’s workforce.

HIGHLIGHTS

186 Students/10 Faculty over 2017-18 school year

160 professional certifications earned by students to differentiate degrees and learn marketable skills (Examples include Google Analytics, Google AdWords, HubSpot email marketing, Facebook Blueprint, IDEO Foundations in Design Thinking certificate)

To learn more, please contact:
Alison Skilbred, Director
alisonskilbred@boisestate.edu

cid.boisestate.edu/b2c

WANT TO GET INVOLVED?

• Industry professional? Come teach a course or workshop!
• Employer feedback for traits/training you’d like to see in Boise State graduates
• Sponsorships for workforce development student workshops

B2C: Equipping students with skills and certified competencies that employers value as ways to increase career awareness and opportunity for students of any major.
HBX CORe Immersion at Boise State

HBX CORe is an immersive learning experience designed to prepare students to participate fully in the business world — regardless of background or major. Boise State is the first public university to offer the program, delivering world-class content locally while maintaining affordability and increasing access for all.

HBX CORe gives our students fluency in the language of business, certified by Harvard Business School. Through the program, students are exposed to top teaching and learning through the online platform and local resources.

Boise State is excited to pilot HBX CORe as a course in our listed curriculum, allowing our students to use tuition dollars to earn credit and a credential from Harvard Business School.

HIGHLIGHTS

Broadened access to HBX CORe by adding:

- A two-semester option, allowing students to split the credit load across two semesters while keeping them on track to graduate in their chosen major
- The credential as a formal pathway for the Bachelor of Applied Science degree, enabling more online students to take the course
- Six new businesses who sponsored their employees to earn the credential

For additional information please contact:

Mark Woychick,
Director of Programs
markwoychick@boisestate.edu
cid.boisestate.edu/hbxcore

HOST A HBX COHORT

- Host your own HBX cohort, customized for your business
- Add HBX to your staff development plan and sponsor your employees
The Venture College is built on the idea that entrepreneurship is not only the act of starting a venture, but also a skill set, a state of mind, and an approach to solving important problems in our community and world. As a cross-university resource, the Venture College equips students to develop their ideas, projects, and ventures into their full potential. Students bring what they’ve learned in the classroom and develop their skills and access resources at the Venture College to take their projects and ventures as far as they can go.

With support from Boise State and the community, Venture College helps motivated students develop and demonstrate their readiness to contribute to growing the economy and enriching lives in the Treasure Valley and beyond.

500+ students participated in Venture College classes, workshops, programs, and competitions

Network of over 700 community supporters and mentors

Launched the High School Idaho Entrepreneur Challenge with five Treasure Valley partners, where 20 teams and 80+ students competed for cash prizes

Conducted business model development training events

Co-sponsored Invent for the Planet, with the College of Engineering, where 40 Boise State students competed with 13 other universities in a 48-hour design experience to solve high-impact, global problems

Hosted Boise State’s first Shark Tank event, where 10 teams competed for prize money and mentorship opportunities

Sponsored Boise Startup Week

INTERESTED IN HELPING STUDENTS TAKE THEIR IDEAS AS FAR AS THEY CAN GO?

We are seeking partners who wish to transform lives and help to create the leaders of tomorrow in Idaho. Opportunities include direct engagement with students through mentorships, apprenticeships, and internship opportunities. Help us also host and participate in Venture College events that help students acquire the readiness skills they need to succeed.

To learn more please contact:

Mike Sumpter, Executive Director
michaelsumpter@boisestate.edu
cid.boisestate.edu/venturecollege
IDAHO ENTREPRENEUR CHALLENGE

The IEC invests in the state’s future economic growth and societal impact by activating our most innovative and entrepreneurial students. By leveraging campus partners across Idaho, the 2018 IEC starts early in the fall with on-campus entrepreneurship events, continues through the winter with the IEC application process, and culminates with the final IEC event in the spring. Each of the 24 finalist teams made it through 3 rounds of rapid fire pitching to a panel of judges, a small business presentation by Zions Bank and finally, the awarding of $100,000 in seed money.

The judges represent a diverse group of individuals including venture capitalists, serial entrepreneurs, and domain experts spanning technology, healthcare, agriculture, consumer products, and social impact sectors. The 30 finals judges from across the USA and come from Boise, Boston, Los Angeles, New York City, Phoenix, Salt Lake City, San Francisco and Seattle.

HIGHLIGHTS

92 students applied from across the state, 63 students and 10+ faculty coaches competed on 24 finalist teams

15 teams took home $100,000 in funding in the categories of: Technology, Social or Cultural Impact, Agriculture and Agriculture Technology, and Health and Healthy Living

To learn more please visit:
cid.boisestate.edu/iec
BOISE STATE VARSITY eSPORTS

This year, in collaboration with the College of Education, The College of Innovation and Design sponsored the launch of the Varsity eSports program at Boise State. The program is led by Educational Technology chair, Dr. Brett Shelton (General Manager) and faculty Dr. Chris Haskell (Head Coach). In less than a year, the program skyrocketed from a concept to a full program. In addition to leading the varsity team at Boise State and competing in the collegiate matches and tournaments that accompany it, Drs. Haskell and Shelton, have been trailblazers in collegiate eSports.

To learn more contact:
Dr. Chris Haskell, Head Coach
Dr. Brett Shelton, General Manager
esports@boisestate.edu
(208) 426-1966
esports.boisestate.edu

HIGHLIGHTS

Competed in the Mountain West Conference in Las Vegas for the inaugural eSports championship

ESPN published a feature on the team

Hosted the inaugural Idaho High School eSports tournament

Thanks to contributions from local sponsors, Boise State Varsity eSports will get a state of the art arena in the College of Innovation and Design

GAME TITLES

- Hearthstone
- League of Legends
- Rocket League
- Overwatch
- Heroes of the Storm
UNIVERSITY FOUNDATIONS 100 COURSE: DESIGNING YOUR LIFE

Beginning Spring semester of 2019, the College of Innovation and Design will teach its first University Foundations course at Boise State. The course will revolve around the curriculum Designing Your Life from Stanford University. By using the delivery vehicle of University Foundations, the course aims to catch students at the start of their college journey and teaches them to think strategically about their years at Boise State, in a way that aligns with their values.

HIGHLIGHTS

Approval by University Foundations Committee
Team + collaborators traveled to Stanford for curriculum development training
Creation of Interdepartmental collaboration pathways

To learn more contact:
Jillana Finnegan, Director of Programs
jillanafinnegan@boisestate.edu
(208) 426-4185

cid.boisestate.edu/uif

UNIVERSITY INNOVATION FELLOWS

In partnership with Stanford University, “The University Innovation Fellows program empowers students to become leaders of change in higher education.” UIF students help CI+D to keep a pulse on student needs, and help to develop student-led, creative solutions for those needs.

HIGHLIGHTS

Recruitment of 2018 cohort
 IDEation 2018 partnership. Please read more on P. 15

To learn more contact:
Alison Skilbred, Director
alisonskilbred@boisestate.edu
cid.boisestate.edu/uif
HELPING STUDENTS LAUNCH INTO THEIR FUTURE
HELP SPONSOR THE UNIVERSITY OF THE FUTURE

STUDENTS
Current Undergrad and Graduate, Prospective, Working or Returning

BUSINESS
Professionals
Leaders
Owners

COMMUNITY
Groundbreakers
Spearheads
Trailblazers

DISCOVER
PARTNER
ENROLL
cid.boisestate.edu

ARE YOU AN:
IDEA PERSON,
ENTREPRENEUR,
RISK-TAKER?

EXPLORE,
SUPPORT, GIVE:
cid.boisestate.edu

Heather Kimmett
Director of Development
heatherkimmett@boisestate.edu