The University of Idaho is growing a robust economic future for Northern Idaho by expanding opportunities to study computer science in Coeur d'Alene. U of I is adding more programs that will bring experiential learning to the next level with its state-of-the-art Engineering and Computer Science Innovation Center.

Bachelor's, master's and doctorate degrees in Computer Science are now available in Coeur d'Alene.
Connections and experience before completing their degrees. Every student has the opportunity to be employed by Micron, Schweitzer Engineering Laboratories, INL and Innovation Den for hands-on experience for students.

The bachelor’s program is designed as a 2+2. The first two years of computer science coursework are offered at North Idaho College and the second two years by U of I faculty located in Coeur d’Alene.

Currently located in downtown Coeur d’Alene at the Innovation Den, the University of Idaho provides educational, research and professional development services. The established computer science program offers B.S., M.S. and Ph.D. degrees locally. The University of Idaho houses a robotics lab in the Innovation Den for hands-on experience for students.

These unique collaborations are possible thanks to the cooperative education (co-op) program launched in June 2018 with Micron, Schweitzer Engineering Laboratories, INL and others. Every student has the opportunity to be employed by partner companies as undergraduates, gaining invaluable connections and experience before completing their degrees. The bachelor’s program is designed as a 2+2. The first two years of computer science coursework are offered at North Idaho College and the second two years by U of I faculty located in Coeur d’Alene.

Through industry partnerships and internships, students take part in grassroots efforts to create new technology and implement its real-world applications. These unique collaborations are possible thanks to the cooperative education (co-op) program launched in June 2018 with Micron, Schweitzer Engineering Laboratories, INL and others. Every student has the opportunity to be employed by partner companies as undergraduates, gaining invaluable connections and experience before completing their degrees.

Looking To The FUTURE

U of I plans to provide additional areas of study in Coeur d’Alene such as electrical, computer and mechanical engineering, and industrial technology as we support the growing technology sector and overall economic development of Northern Idaho.

The Engineering and Computer Science Innovation Center will grow the local computing pipeline and support the local tech community. Including U of I’s Idaho Entrepreneurs in this new facility will allow students to develop complementary technical and entrepreneurial skills. This is an opportunity for a unique collaboration between the College of Engineering and the College of Business and Economics to foster a multi-disciplinary educational center focused on bringing innovation and new ideas into the marketplace to help grow high tech industry in Idaho.

Where We Are

Currently located in downtown Coeur d’Alene at the Innovation Den, the University of Idaho provides educational, research and professional development services. The established computer science program offers B.S., M.S. and Ph.D. degrees locally.

The University of Idaho houses a robotics lab in the Innovation Den for hands-on experience for students. A cybersecurity test-bed for examining cyber-physical systems, with nodes in Coeur d’Alene, Idaho Falls and Moscow, is scheduled to open by the end of 2018. Additional labs will open in 2019.

Notable FEATURES

- Intersecting spaces for collaborative interaction and learning, where faculty, staff, students, and industry leaders will benefit from linkages across disciplines and projects.
- Classrooms where faculty can employ state-of-the-art instructional techniques to enhance the student experience including including hi-fi video and audio-linked rooms connecting U of I classrooms in Coeur d’Alene, Idaho Falls and Moscow.
- Twelve laboratories where faculty and students build new technologies and test new systems that advance our economy.
- Offices for faculty, staff and graduate students as well as visiting faculty and industry professionals, all working to advance technology and student learning.

Facility VISION

At 40,000 gross square feet, the construction of the Engineering and Computer Science Innovation Center represents a $12 million investment. The proposed building will be funded entirely with private gifts. The university will actively seek the support of constituencies that strive to advance engineering and technology in the region and have a stake in the success of this project. Gifts of all sizes from individual alumni, parents and friends will make a crucial difference, including helping to attract support from major corporations and foundations.

"With U of I having a presence in downtown CdA, we will use our passion for innovation to connect with academia in ways that allow us to cultivate next generation tech talent, while also exploring and leveraging new technologies for helping our clients."

- TYLER ALVARADO
  CEO, Continuous Composites in downtown Coeur d’Alene

LABORATORIES

Where We Are

Currently located in downtown Coeur d’Alene at the Innovation Den, the University of Idaho provides educational, research and professional development services. The established computer science program offers B.S., M.S. and Ph.D. degrees locally.

The bachelor’s program is designed as a 2+2. The first two years of computer science coursework are offered at North Idaho College and the second two years by U of I faculty located in Coeur d’Alene.

Looking To The FUTURE

U of I plans to provide additional areas of study in Coeur d’Alene such as electrical, computer and mechanical engineering, and industrial technology as we support the growing technology sector and overall economic development of Northern Idaho.

The Engineering and Computer Science Innovation Center will grow the local computing pipeline and support the local tech community. Including U of I’s Idaho Entrepreneurs in this new facility will allow students to develop complementary technical and entrepreneurial skills. This is an opportunity for a unique collaboration between the College of Engineering and the College of Business and Economics to foster a multi-disciplinary educational center focused on bringing innovation and new ideas into the marketplace to help grow high tech industry in Idaho.

Notable FEATURES

- Intersecting spaces for collaborative interaction and learning, where faculty, staff, students, and industry leaders will benefit from linkages across disciplines and projects.
- Classrooms where faculty can employ state-of-the-art instructional techniques to enhance the student experience including including hi-fi video and audio-linked rooms connecting U of I classrooms in Coeur d’Alene, Idaho Falls and Moscow.
- Twelve laboratories where faculty and students build new technologies and test new systems that advance our economy.
- Offices for faculty, staff and graduate students as well as visiting faculty and industry professionals, all working to advance technology and student learning.

Facility VISION

At 40,000 gross square feet, the construction of the Engineering and Computer Science Innovation Center represents a $12 million investment. The proposed building will be funded entirely with private gifts. The university will actively seek the support of constituencies that strive to advance engineering and technology in the region and have a stake in the success of this project. Gifts of all sizes from individual alumni, parents and friends will make a crucial difference, including helping to attract support from major corporations and foundations.

"With U of I having a presence in downtown CdA, we will use our passion for innovation to connect with academia in ways that allow us to cultivate next generation tech talent, while also exploring and leveraging new technologies for helping our clients."

- TYLER ALVARADO
  CEO, Continuous Composites in downtown Coeur d’Alene

LABORATORIES

- Capstone Student Library
  A space for undergraduate and graduate student project design and development.

- Robotic Automation Laboratory
  A space to educate the next generation of software-oriented robotics engineers.

- Automation Laboratory
  A laboratory for light manufacturing that will provide students the opportunity to learn and experiment with complex automated manufacturing systems.

- Computer Science/Mechanical Engineering Collaborative Robotics Laboratory
  A space to serve as the catalyst for collaborative manufacturing robotics.

- RADICL - Reconfigurable Attackdefend Instructional Computing and Cyber-Physical Systems Laboratory
  A space to enable hands-on teaching and research in information assurance and cyber-defense.

- Innovation & Entrepreneur Tank
  An entrepreneurial space for engineering and business students to collaborate.

- Mover - Medical Virtual Reality Laboratory
  A space to educate the next generation of software-oriented 3D graphics engineers on advanced topics in video manipulation.

- Joint NIC / U of I Teaching, Tutoring and Experimenting Laboratory
  A video-enabled classroom connecting Moscow, Idaho Falls and North Idaho College for computer-based work.

- Electronics Laboratory
  A hands-on space for learning and developing electrical circuit and systems.

- Instrumentation Laboratory
  A space for learning modern instrumentation for probing, measuring and analyzing systems.

- Embedded Systems Laboratory
  A hands-on space for learning testing and developing embedded systems.

- Computer Aided Engineering and Prototyping Laboratory
  A space to provide students hands-on experience with industry standard software design systems such as SolidWorks and Catia and rapid prototyping equipment.
Your generous gift helps build the future of engineering and technology in Coeur d’Alene and beyond.

For more information, please contact:

Mary Lee Ryba
Senior Director of Development, College of Engineering
208-885-1589
mryba@uidaho.edu
TIMELINE

2013
- Digital Innovators Generating New Information (Dig’n IT)
- Technologies Camp Opens
- First girls coding camp & high school internships offered

2014
- First U of I Computational Teacher Training dual credit class (CS 112) in CdA
- Dual credit CS 112 class taught at Sandpoint High School
- Fatbeam donates $3.2 million private fiber line to U of I Research Park
- Experiential learning non-profit Gizmo-CdA Makerspace Opens (co-founded by U of I Coeur d’Alene)
- Code.org: Statewide agreement for K-12 student & teacher training

2015
- Cybersecurity Workforce Training opens at U of I Research Park (Idaho Dept. of Labor Award)
- Idaho legislature approves junior year Computer Science classes in CdA
- First U of I CS classes in CdA, full 3rd year approved and funded
- First U of I CdA Computer Science Industry Summit
- Dual credit CS112 offered online statewide

2016
- Idaho Legislature funds Computer Science B.S. in CdA
- Four resident Computer Science faculty in CdA
- U of I Coeur d’Alene Computer Science program moves into the Innovation Den

2017
- John Stone Scholars in Computer Science Coeur d’Alene awarded
- Fatbeam donates fiber connectivity to the Innovation Den
- Jacklin Family Robotics Lab opens (Baxter)
"Catfish" underwater drone project launches with IWRRI
(U of I Idaho Water Resources Research Institute)
Donor: Rumble Family
Unicep donation of $25,000 robotic manufacturing platform

Online CS 112, developed at U of I CdA, fully engaged to fulfill state mandate of computer science course in every Idaho high school

First U of I Computer Science graduate in CdA
(wins U of I Outstanding Computer Science Student Award)

Successful launch of the Cooperative (co-op) Education program
First Chinese middle school student Coding Camp
U of I assistantships for NIC faculty pursuing advanced degrees
Vision created for prospective Engineering and Computer Science Innovation Center
Launch Fundraising Campaign for Engineering and Computer Science Innovation Center
Virtual Technology and Design Lab established at U of I Research Park
ABET accreditation review for Computer Science in Moscow and CdA
Cybersecurity Distributed Testbed Laboratory opens (connected across the state)

With highly engaged industry partners and an innovative and entrepreneurial curriculum, U of I’s Computer Science offering is now a destination program. Hundreds of computer science students are training in Coeur d’Alene with a significant number coming from outside the region, including international students. World-class faculty and state-of-the-art training facilities are leading to great economic developments in Northern Idaho.