

Human Centered Design & Engineering

2021-2022 ACADEMIC YEAR



HCDE Mission & Vision

MISSION

We build possibility. We advance systems and technologies for people and communities to create accessible, sustainable, and prosperous futures.

We create intersections. We thrive at the critical junction of research, education, and community to cultivate equity, access, and opportunity.

VISION

We believe a just future is possible. We will be the leading academic program integrating empathy and collaboration to design and engineer equitable practices, tools, and technologies across the globe.

HCDE's Guiding Principles

RESPECT FOR PEOPLE

We respect all individuals, communities, and their agency. We assume positive intent on behalf of those we work with and strive to understand before acting.

EQUITY

We centralize the needs of those who are often marginalized. We work to create environments and practices that are open and safe for all participants and perspectives from all social identities.

INTERDISCIPLINARY EXPLORATION

We celebrate innovation, iteration, and reflection using interdisciplinary methods and perspectives. As we endeavor toward excellence, we take considered risks and learn from mistakes. We seek opportunities for collaborative exploration and partnerships.

THOUGHTFUL IMPACT

We are action-oriented toward challenges while continually questioning and improving. We continue to follow and study the repercussions of our actions so that they maximize the possible benefits while anticipating and minimizing possible harms.

HCDE Strategic Plan: Year 3

Goal 1: Advance HCDE as a high quality, influential, interdisciplinary design and engineering program, and ensure our mission and vision are widely recognized.

Goal 2: Balance total HCDE program size and scope with demand, ensuring the financial stability and sustainability to maintain excellence in teaching and research.

Goal 3: Advance and sustain diversity and equity across our work and communities.

Goal 4: Develop and execute a strategic approach to bolstering and diversifying high-quality research and research impact.

Goal 5: Strengthen integration with the College of Engineering's current goals and influence future goals.

Learn more:

hcde.uw.edu/about/strategic-plan

Academic Programs

2021-2022 ACADEMIC YEAR

Core degree programs

The Bachelor of Science in HCDE provides students with user research and design skills, coupled with a solid foundation in math and science.

The Master of Science in HCDE fosters and advances students' knowledge and skills in the design and evaluation of information products, technologies, and user interfaces.

The Doctor of Philosophy in HCDE provides unparalleled depth and experience for students interested in studying the conception, design, implementation, usability, and evaluation of technologies for specific audiences or user groups.

The User-Centered Design Certificate in HCDE provides students with the opportunity to explore a wide range of issues in usability and user-centered design.

Affiliate degree programs

Professional & Continuing Education

Master of Human-Computer
Interaction + Design

Professional & Continuing Education

Master of Science in Data Science

Global Innovation Exchange

Master of Science in Technological Innovation

Master of Science in Engineering (Data Science
and Information Technology)

HCDE people

2021-2022 ACADEMIC YEAR

HCDE faculty

18

Tenured and tenure-track
and research faculty
61% women

8

Faculty career
teaching professors
63% women

17

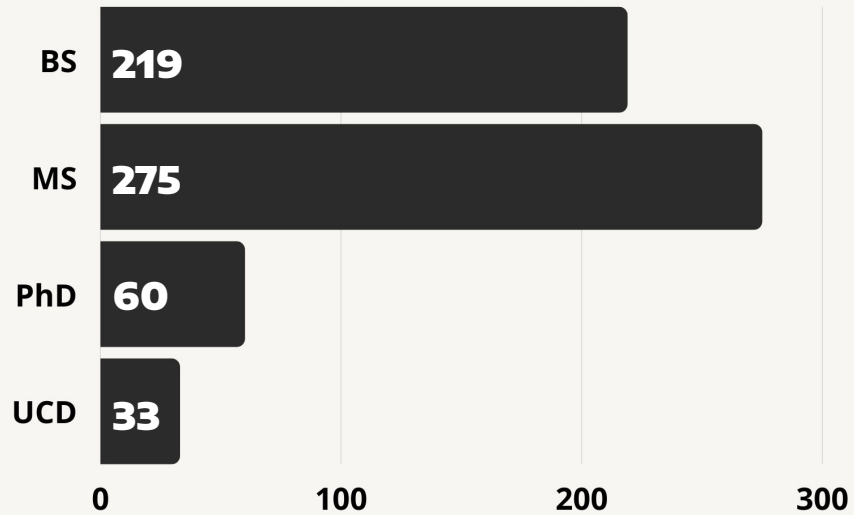
Joint or adjunct faculty
from other UW
departments

31

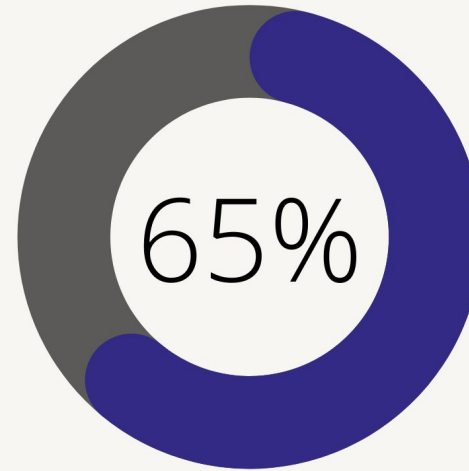
Affiliate faculty from industry
and external research and
educational institutions

HCDE students

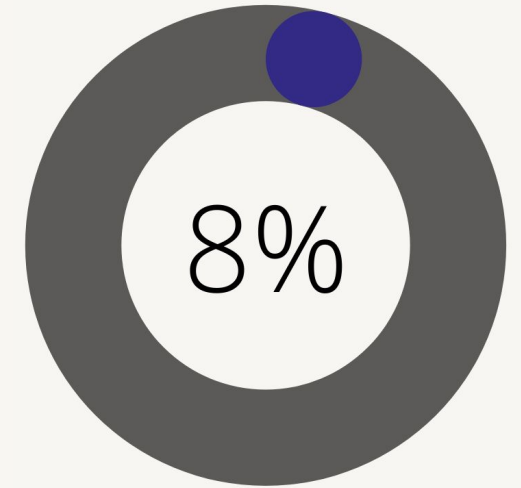
Student body



Women students



First-generation college students



HCDE research

2021-2022 ACADEMIC YEAR

Research by the numbers

17

Active labs
and centers

58

Directed Research Groups
offered last year

208

Students participated in
research last year

22

Research grants
awarded last year

\$9.7m

Grant funding to HCDE
researchers last year

HCDE research labs

Communicative Practices in Virtual Workspaces Lab

Faculty director: **Mark Zachry**

Computer Supported Collaboration Lab

Faculty director: **Charlotte Lee**

Computing for Healthy Living and Learning Lab

Faculty director: **Julie Kientz**

Data Ecologies Lab (deLAB)

Faculty director: **David Ribes**

Emerging Capacities of Mass Participation Lab

Faculty director: **Kate Starbird**

Human-Centered Data Science Lab

Faculty director: **Cecilia Aragon**

Inclusive Design Lab

Faculty director: **Leah Findlater**

Inquisilab

Faculty director: **Sucheta Ghoshal**

Laboratory for Human-Centered Engineering Education

Faculty director: **Jennifer Turns**

Laboratory for Influence in SocioTechnical Systems

Faculty director: **Sean Munson**

Machine Agency

Faculty director: **Nadya Peek**

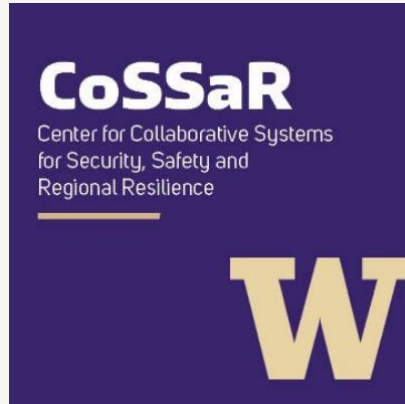
Prosocial Computing Lab

Faculty director: **Gary Hsieh**

Tactile and Tactical Design Lab (TAT Lab)

Faculty director: **Beth Kolko & Daniela Rosner**

HCDE research centers



Center for Collaborative Systems for Security, Safety, and Regional Resilience (CoSSaR)

The mission of CoSSaR is to lead innovation in the design, development and use of collaborative systems that support regional operations for security, safety and resilience.

HCDE faculty director: **Mark Haselkorn**



Center for Engineering Learning & Teaching (CELT)

The mission of CELT is to conduct internationally recognized research in engineering learning, to promote teaching effectiveness in engineering classrooms at the UW, and to be a model for effecting change in Colleges of Engineering.

HCDE faculty director: **Cynthia Atman**

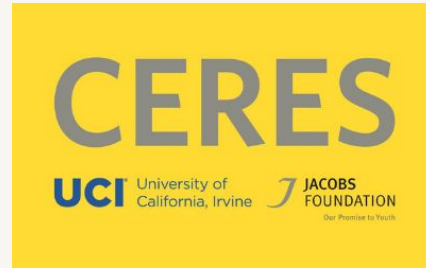
HCDE affiliated centers



Center for an Informed Public (CIP)

Our mission is to resist strategic misinformation, promote an informed society, and strengthen democratic discourse.

HCDE faculty: **Kate Starbird**



Connecting the EdTech Research EcoSystem (CERES)

CERES brings together global leaders in computer science, psychology, neuroscience, education and the educational technology industry so digital technologies can be better tailored to children.

HCDE faculty: **Julie Kientz**



Center for Research and Education on Accessible Technology and Experiences (CREATE)

Our mission is to make technology accessible and to make the world accessible through technology.

HCDE faculty: **Leah Findlater**



ALACRITY

Our multidisciplinary team leverages human-centered design, education, and implementation science to uncover and overcome obstacles that prevent quality mental health treatments from reaching underserved communities.

HCDE faculty: **Sean Munson**

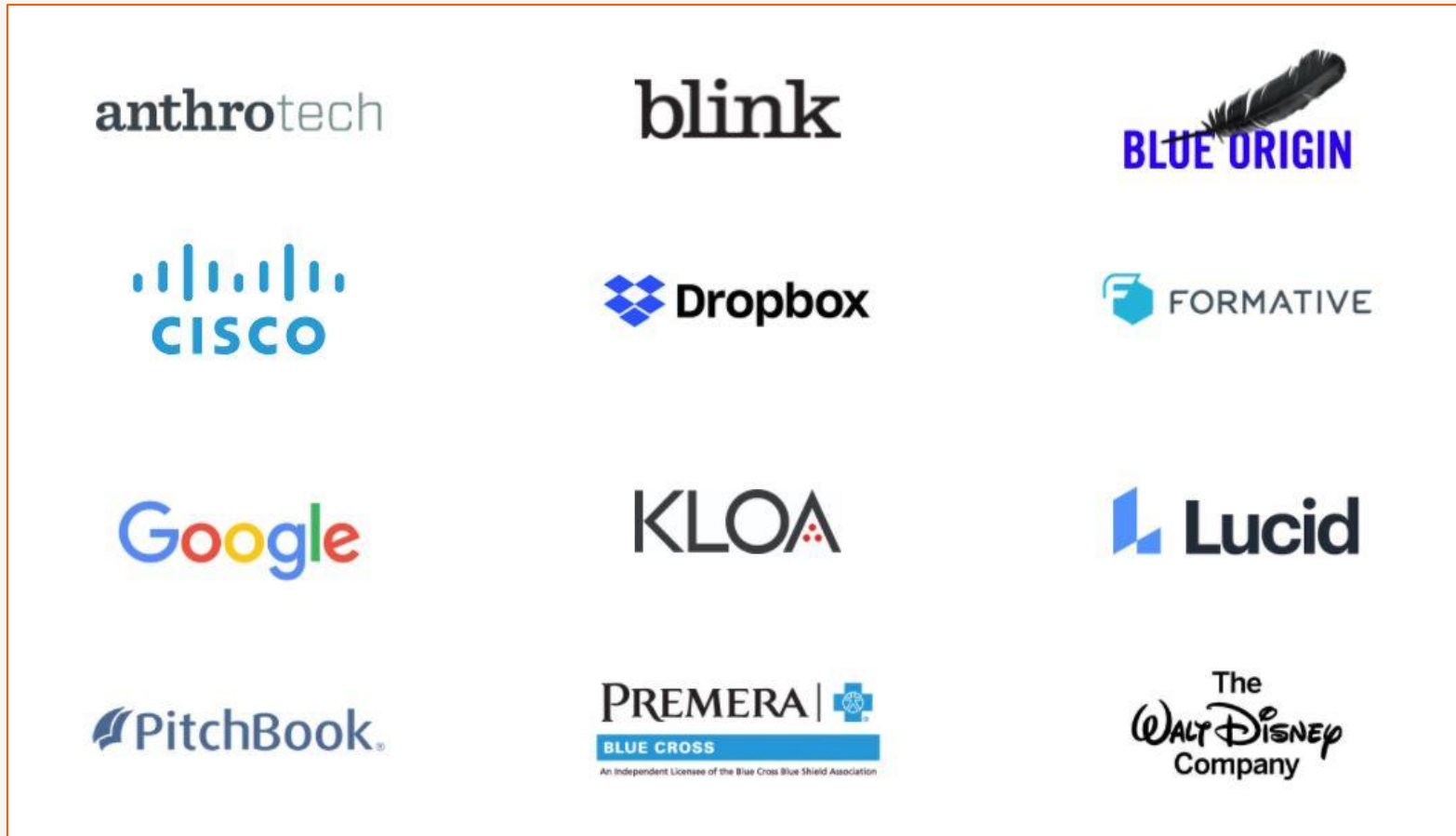
Industry partnerships

2021-2022 ACADEMIC YEAR

Corporate Affiliate Members



Corporate Affiliate Members



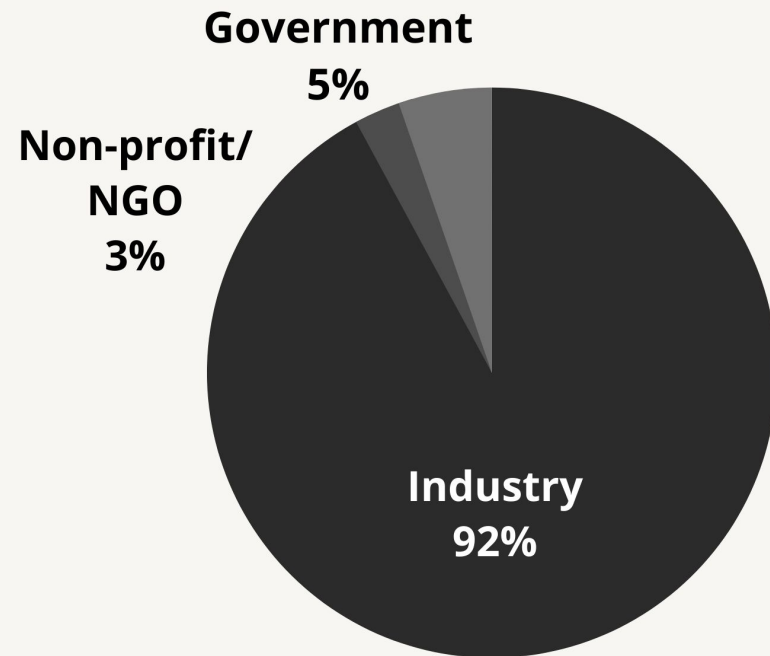


Alumni employment

2019 & 2020 GRADUATES

Alumni employment

Sectors where '19 & '20 grads are working



Most common job titles '19 & '20 grads



Alumni employment

Organizations where '19 & '20 grads are working

- Abstract
- Adobe
- Allovus
- Amazon
- Becu
- Brooks Running
- Carina
- City of Seattle
- Dun and Bradstreet
- Elastic
- Facebook
- Getty images
- Google
- HealthStream
- Indeed
- Inspectify
- inVibe Labs
- Juniper Networks
- Microsoft
- Morningstar
- Nordstrom
- Northshore Community Church
- Noyo, Inc.
- OfferUp
- Omaze
- Palo Alto Networks
- Panda AI
- Postman
- Providence Health
- Redfin
- UCSC (research)
- University of Washington

We build possibility

Learn more at hcde.uw.edu/about

