Human Centered Design & Engineering

2021-2022 ACADEMIC YEAR
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:
- BS: 219
- MS: 275
- PhD: 60
- UCD: 33

Women students: 65%

First-generation college students: 8%
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
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

[Logos of various companies]
Corporate Affiliate Members

- anthrotech
- blink
- BLUE ORIGIN
- Cisco
- Dropbox
- Formative
- Google
- KLOA
- Lucid
- PitchBook
- PREMERA Blue Cross
- The Walt Disney Company
Alumni employment

2019 & 2020 GRADUATES
Alumni employment

Secors where '19 & '20 grads are working

Government 5%
Non-profit/NGO 3%
Industry 92%

Most common job titles '19 & '20 grads

Software Engineer
Product Manager
UX Researcher
UX Designer
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