



# An Overview of University of Washington Computer Science & Engineering



## Undergraduate Education

- Ranked among the top ten undergraduate programs in the nation by *US News*
- Won four *UW Distinguished Teaching Awards* in the past ten years
- Won the first *UW Brotman Award for Instructional Excellence*
- In 2004, student recognition included our third *Arts & Sciences Dean's Medalist* in a row, two *Goldwater Scholars*, and a *Rhodes Scholar* finalist (one of 4 in the past 5 years, including 2001 Rhodes recipient Emma Brunskill)
- Fifteen students recognized in the past 5 years in the *Computing Research Association Outstanding Undergraduate Award* competition – winners, runners-up, finalists, and honorable mention recipients
- In recent years, UW has been a top supplier of new college graduates to Microsoft, Intel, and IBM, and the major supplier to many outstanding regional technology firms
- Extensive involvement of undergraduates in research and in industrial co-ops/internships
- Hallmark *Capstone Design Courses* in fields such as embedded systems, digital animation, internet systems, videogames, digital systems, VLSI, computer telephony, and more



## Graduate Education

- Ranked among the top ten graduate programs in the nation by *US News* and the *National Research Council* – for Computer Science, for Computer Engineering, and for all three Computer Science specialties ranked by *US News* (Artificial Intelligence, Systems, and Theory)
- In a recent *National Doctoral Program Survey* funded by the Sloan Foundation – a survey of students regarding departmental adherence to “best practices” in graduate education – rated #1 among all Computer Science graduate programs in the nation, #1 among all Computer Engineering programs, and #1 among all programs in engineering
- Won the second *UW Distinguished Graduate Mentor Award*
- In 2004, UW CSE Ph.D. AnHai Doan received the *ACM Distinguished Dissertation Award*. (In 2003, UW CSE faculty member Venkat Guruswami received the award for his MIT dissertation. In 2001, two of the three students recognized in the competition were UW CSE Ph.D.s – William Chan and Mike Ernst.)
- Ph.D. student Steve Wolfman received the 2002 *UW Excellence in Teaching Award* (for graduate teaching assistants)



Former UW CSE department chair Ed Lazowska spent 2001-02 on sabbatical at UC San Diego, where there are six UW CSE alums on the Computer Science & Engineering faculty! L-R: Stefan Savage, UW CSE Ph.D. 2002; Bill Griswold, UW CSE Ph.D. 1991; Fran Berman, UW CSE Ph.D. 1979; Ed Lazowska; Geoff Voelker, UW CSE Ph.D. 2000; Dean Tullsen, UW CSE Ph.D. 1996; Brad Calder, UW CSE B.S. 1991.

## Entrepreneurship and Innovation

- Brought the Internet and modern Integrated Circuit design to the Pacific Northwest
- Helped attract companies such as DECwest Engineering, Tera/Cray, Intel Research
- Early alumni founded companies such as Aldus, Visio, IC Designs, Digital Research, Dialogic
- More than a dozen new companies founded in recent years – strong ties to the region’s venture capital community (Impinj – <http://www.impinj.com> – is an excellent example of a recent startup closely tied to our computer engineering activities)
- Many technologies transferred to existing companies – WebCrawler (the first full-text web search engine), MetaCrawler (the first web meta-search engine), Simultaneous Multithreading (commercialized by Intel as HyperThreading), and others



## Outreach

- Key role in design and implementation of Washington’s award-winning *K-20 Educational Telecommunications Network*
- Outreach to K-12 and community colleges has been recognized with the *UW Outstanding Public Service Award* and with the Seattle Alliance for Education’s *A+ Partnership Award*
- Distance learning efforts have been recognized *twice* with the national *R1edu Award*



## The Paul G. Allen Center for Computer Science & Engineering

- Dedicated in autumn 2003
- *Tripled* our laboratory space, and more than double our total space
- Integrated with a recently-completed building for UW’s Electrical Engineering Department
- A \$72 million project:
  - \$10 million from the Legislature
  - \$20 million from UW
  - \$42 million from private sources
    - \$14 million from Paul G. Allen
    - \$7.2 million from Microsoft Corporation
    - \$6.5 million from Bill & Melinda Gates
    - \$15 million from more than 250 other friends and alumni in the region’s software and venture communities



The Paul G. Allen Center for Computer Science & Engineering  
Dedicated Autumn 2003

## The Campaign for CSE

- Continues with a goal of \$20 million for endowments – “the people part”

## Further Information

- Department home: <http://www.cs.washington.edu/>
- Department news: <http://www.cs.washington.edu/news/>
- Department capstone design course videos: <http://www.cs.washington.edu/videos/>
- The Paul G. Allen Center: <http://www.cs.washington.edu/building/>
- The *Campaign for CSE*: <http://www.cs.washington.edu/campaign/>