# University of Washington Computer Science & Engineering

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Computer Science & Engineering
University of Washington

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http://lazowska.cs.washington.edu/stm.pdf

# Quick overview

- Ranked among the top 10 programs in the nation (of >200)
  - MIT, Stanford, Berkeley, Carnegie Mellon, Cornell, Illinois, Washington, Princeton, Texas, Georgia Tech, Caltech, Wisconsin, Michigan, UCLA, UCSD …
- Two undergraduate programs
  - Computer Science (College of Arts & Sciences)
  - Computer Engineering (College of Engineering)
- > 300 degrees per year
  - ~200 Bachelors
  - ~85 Masters
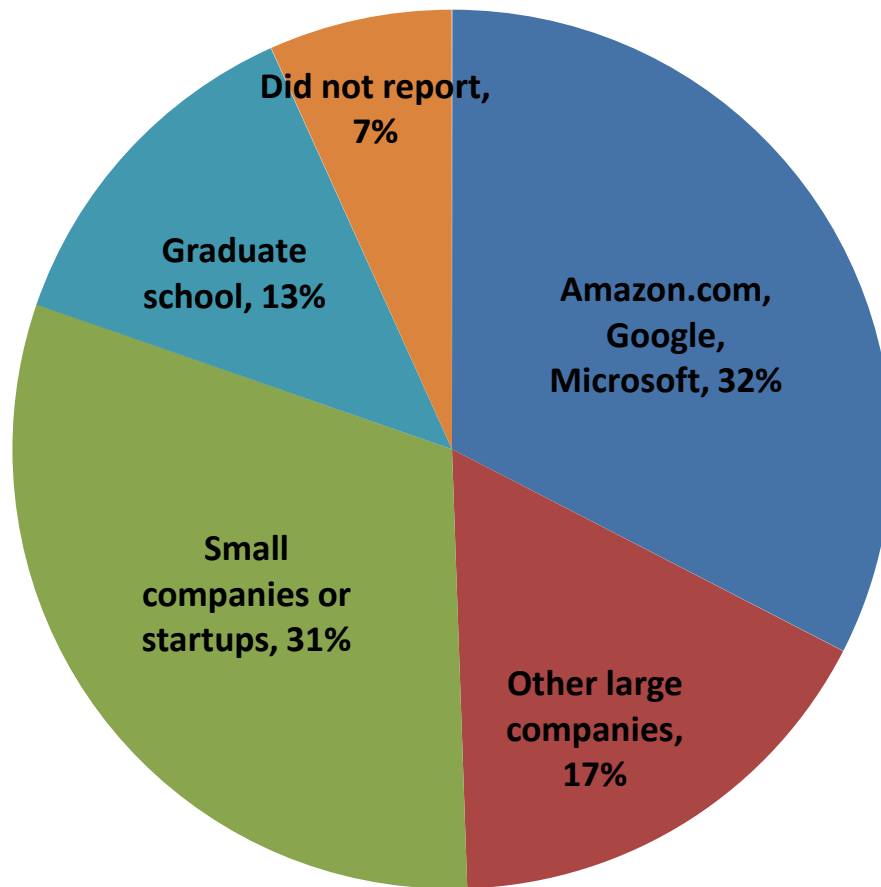  - ~25 Ph.D.

- **Extraordinary students**
  - Fully 1/3 of the UW class medalists since 2000 have been CSE majors
    - Our "fair share" would be 2%
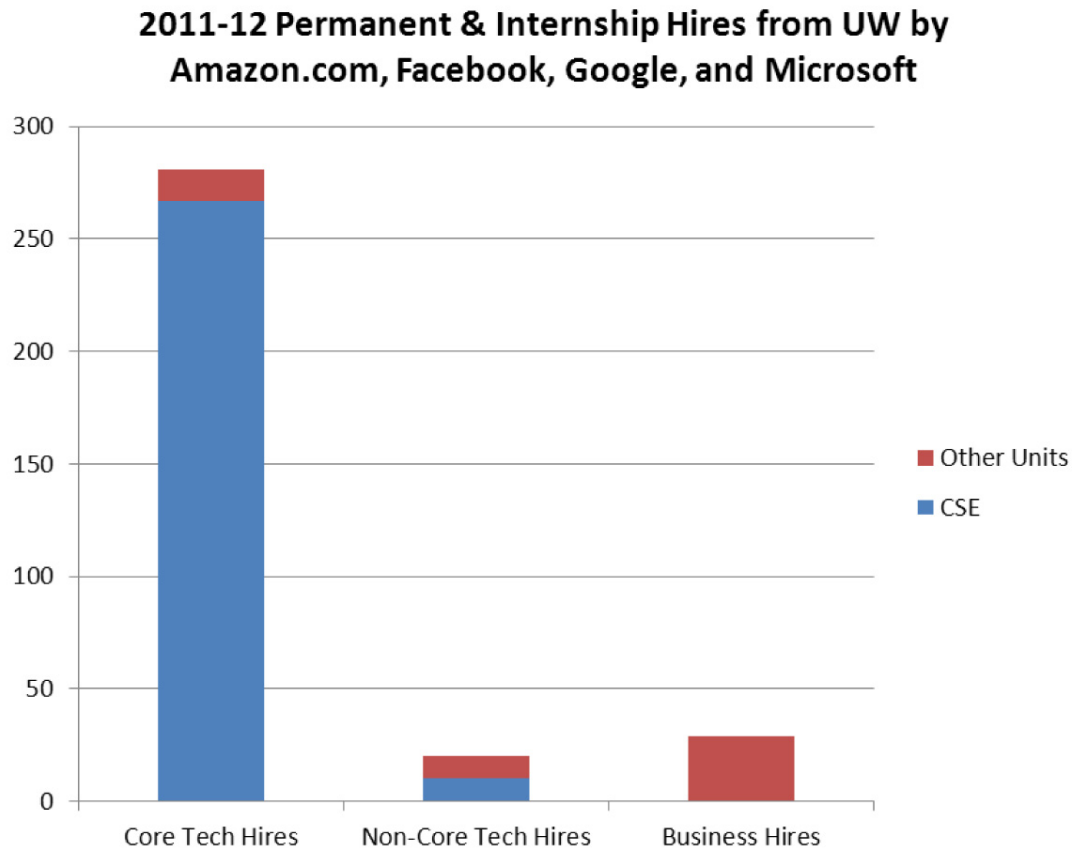- **A deep commitment to providing a top-tier undergraduate education**
  - Winner of 5 UW Distinguished Teaching Awards
  - Winner of the inaugural UW Brotman Award for Instructional Excellence
  - In a typical quarter, 2/3's of the top-performing instructors in the UW College of Engineering, according to student course evaluations, are CSE faculty members
    - 9 of the top 10 in the most recent quarter

- We produce students who can *design and build stuff*
  - Emphasis on teamwork and design
  - 80% of undergraduates do at least one internship
  - 50% of undergraduates participate in faculty-guided research
    - #1 school in the nation in students recognized in the past 10 years in the Computing Research Association "Outstanding Undergraduate Researchers Award" competition
  - A top-5 supplier of students to Amazon.com, Google, and Microsoft (along with MIT, Stanford, Berkeley, and Carnegie Mellon)
  - The predominate supplier to many leading smaller firms headquartered here

UW CSE 2011-12 Student Destinations

- Did not report, 7%
- Graduate school, 13%
- Amazon.com, Google, Microsoft, 32%
- Small companies or startups, 31%
- Other large companies, 17%

# Tech companies that can be choosy, choose CSE



2011-12 Permanent & Internship Hires from UW by Amazon.com, Facebook, Google, and Microsoft

# Some recent spinouts

**Impinj**
Global leader in RFID technology

**Farecast** — Know When to Buy
Airfare price prediction
Acquired by Microsoft as the foundation of Bing Travel

**transformic**
Searching the deep web
Acquired by Google

**Skytap**
Cloud computing for enterprise IT

**ZENSI** — sense more waste less
Home energy monitoring
Acquired by Belkin

**decide.**
"No regrets" purchasing

**GraphLab**
Scalable machine learning on graph structures

# Some alumni startups

# Some technologies

**WEBCRAWLER™**
*"It's that Simple."*
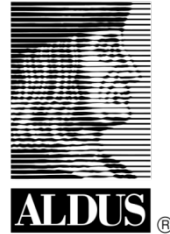
First successful full-text full-page web search engine

**Simultaneous Multithreading**

Foundation of Intel's "Hyper-Threading"

Microsoft **Photosynth™**

Photo collection navigation

**OneBusAway**

Public transit usability software

**Picasa**

Picasa Face Movie

# The New York Times

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## Party Led by Pro-Western Official Claims Lead in Libya

By DAVID D. KIRKPATRICK
**9 minutes ago**

The preliminary election results seemed to reflect the relative novelty of political debate as well as the reputation and tribal connections of the coalition's founder, Mahmoud Jibril.
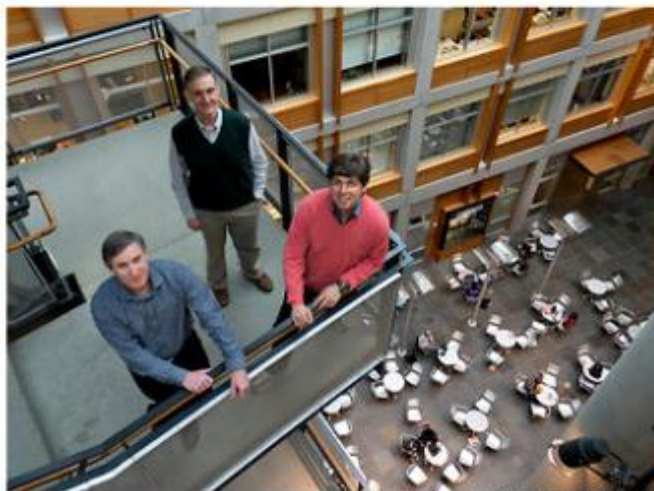
· Arab Uprisings Point Up Flaws in Global Court

## Egypt's President Orders Return of Parliament

By REUTERS **59 minutes ago**

The move by President Mohamed Morsi on Sunday apparently reversed a decision by generals who had dismissed the assembly based on a court ruling.

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Stuart Isett for The New York Times

## A Northwest Pipeline to Silicon Valley

By NICK WINGFIELD

The University of Washington's reputation as an incubator of tech talent is growing. Above, from left, professors Henry M. Levy, Ed Lazowska and Oren Etzioni.

## Has 'Organic' Been Oversized?

By STEPHANIE STROM

Large corporations now dominate, and some people think this has led to a watering down of the organics industry.

· 🔍 Quiz: Test Your Organic Food Knowledge

### Sunday Review

## Don't Indulge. Be Happy.

By ELIZABETH DUNN and MICHAEL NORTON

The secret to consistent pleasure? Buying for others.

## The New Elitists

By SHAMUS KHAN

Today's cultural omnivores are nearly as exclusive as the snobs of old.

## Conservatives Are Happier Than Liberals

By ARTHUR C. BROOKS

Extremists are happiest of all, maybe because they have it all figured out.

### BUSINESS DAY »

FAIR GAME

## The British, at Least, Are Getting Tough

The Libor scandal involving Barclays points to a need for greater transparency, Gretchen Morgenson says.

**Bruni: Bill & Hill**

**Bittman: Milk, No Need**

**Douthat: Now Mali**

**Dowd: Cowboys, Colleens**

**Egan: Fires This Time**

**Kristof: Fewer Coffins**

**Editorial: Struggling in the Suburbs**

# The Seattle Times
Winner of Nine Pulitzer Prizes

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# UW recruits superstars of computer-science world

The University of Washington has landed four new faculty members considered among the brightest in the world of computer science.

By Katherine Long
*Seattle Times higher education reporter*

They're a kind of dream team of the computer-science world: Four of the brightest academics in the fields of "big data" and machine learning have been wooed away from top schools to join the University of Washington over the next year.

It's part of a push by the UW to develop expertise in a field of computer science that is already changing the way people use technology. Their work has the potential to greatly expand the ability to make sense of reams of data, gain a better understanding of the world at large, and make technology more useful in everyday life.

The UW has had "some stunning recruiting successes," said Peter Lee, corporate vice president of Microsoft Research. The new hires "are all very well-known. Let's just say, in academic circles, this has made quite a buzz."

# The ask

- Advocate for better education at all levels in WA. Our kids deserve it.
  - Want to learn about the dismal state of STEM education in Washington at all levels?

    See http://lazowska.cs.washington.edu/STEM.pdf