



ECEDHA Conference 2015

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3/13/2015

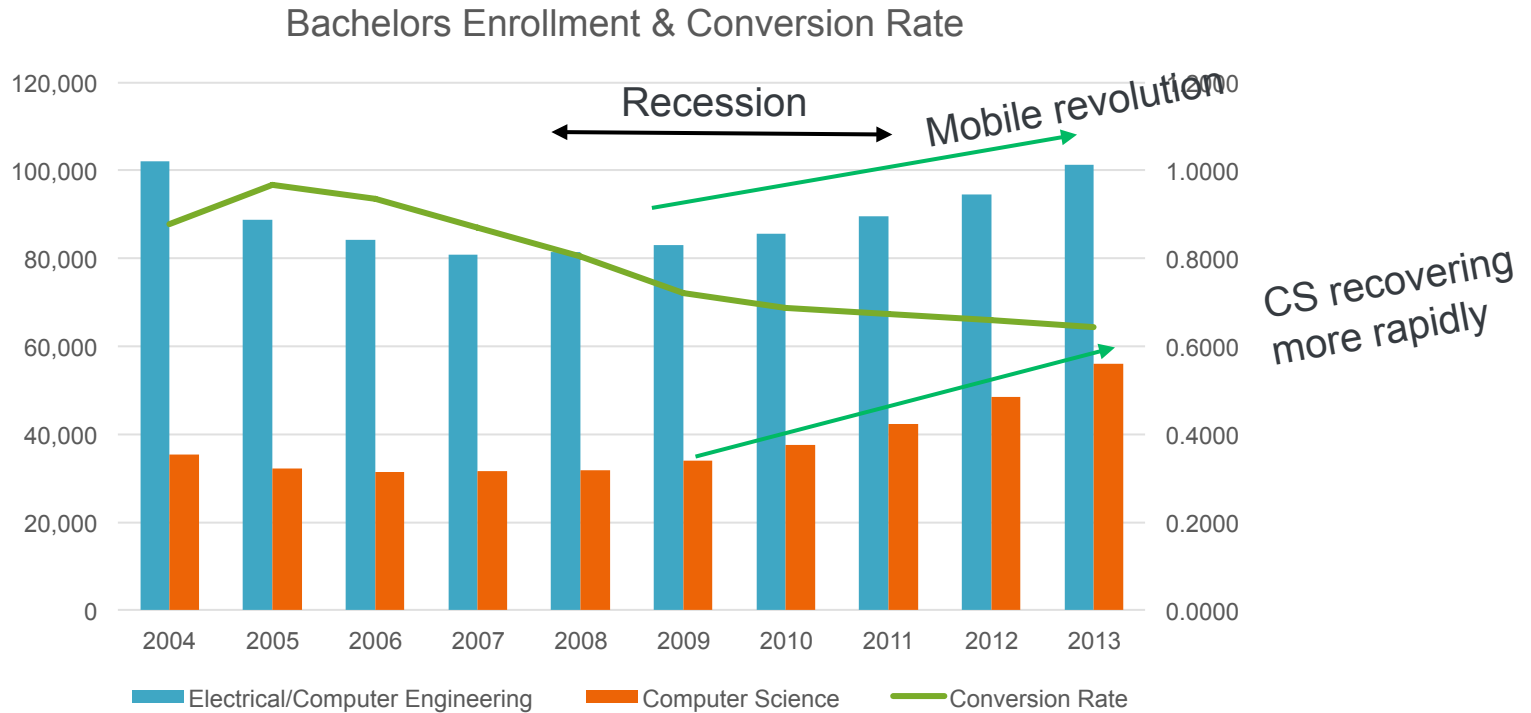


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Bachelors Enrollment to Degrees

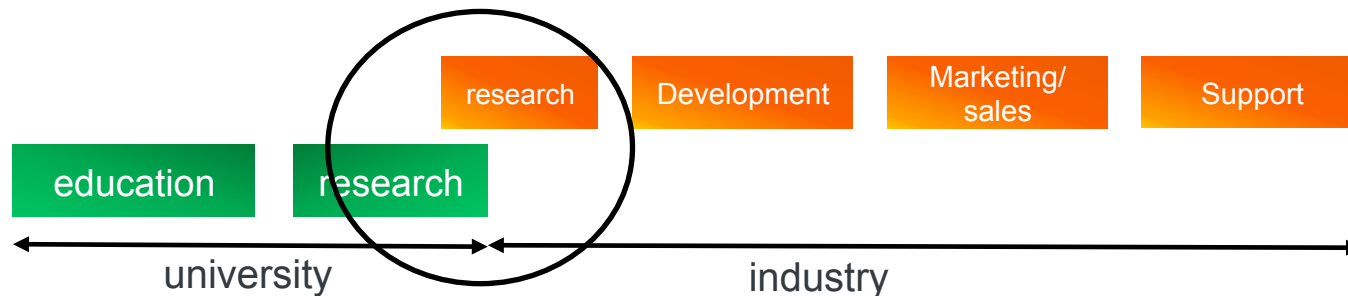


Data Source: ASEE

Is there a generational aspect that must be applied to learning?

Recent experience with New College Graduates

- **Our experience with new college graduates**
 - Not good for technical core competence gap fill
 - Most have a variable learning curve ending up in a short term productivity hit
 - Have a broad base, high energy and motivation but we generally need narrow deep expertise
 - Lack creativity, out of box thinking, innovation
 - Lack maturity for customer/3rd party engagements
 - Conclusion, NCG's are replacements for you
- **The most effective NCG's come from**
 - Previous internships
 - From a joint research program with the company

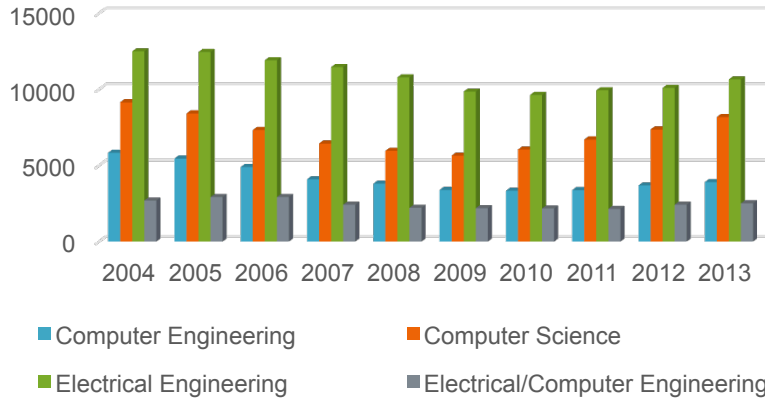


Impact and observations of Industry on curriculum

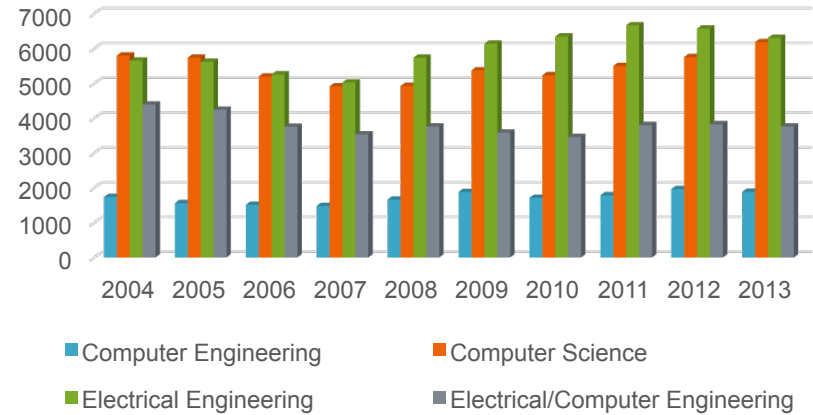
- **Does the consolidation in the semiconductor industry indicate a prescribe shift in focus for the majority of the opportunities for college graduates?**
 - Do open consolidation of system platforms in the computer industry do the same thing (Open Computing Project)
- **Should there be an emergence of curricula such as “Applied Electrical Engineering” as a degree program?**
 - Combination of otherwise considered orthogonal programs (Medical and ECE)
- **Is there a way to encourage more creativity and innovation in the curriculum?**
 - Innovation is the life blood of our industry
- **Can university professors adopt curriculum to the rapidly changing industry?**
 - Design methodologies and tools
 - Social/business skills

Historical Degrees Earned

Bachelors Degrees

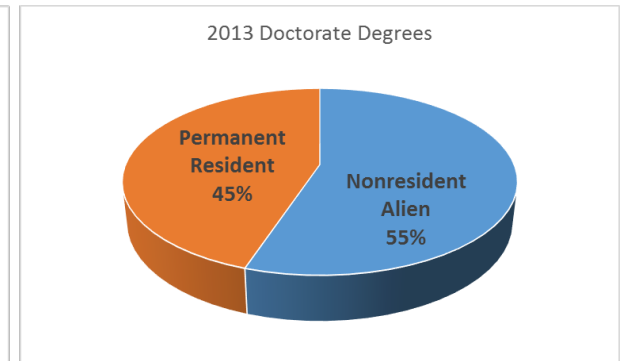
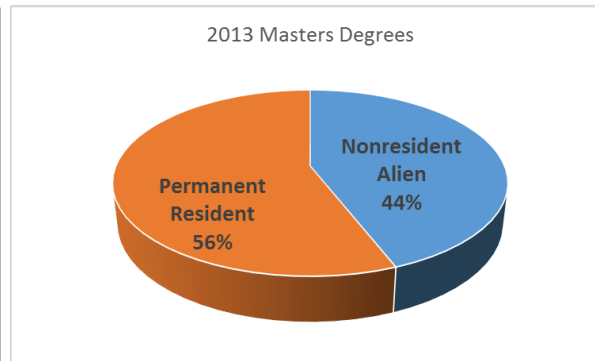
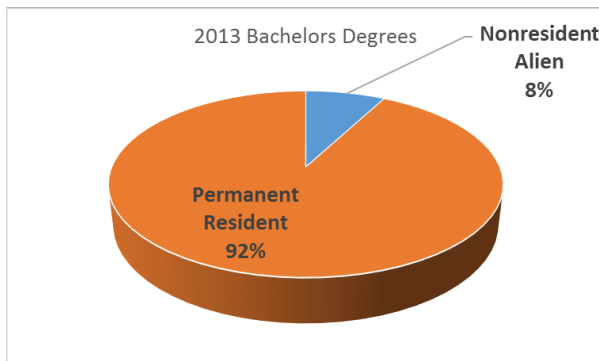


Masters Degrees



Data Source: ASEE

- Computer Science (ECE) appears to have had the fastest rebound//growth



- Permanent residents dominate bachelors programs, but drop dramatically for advanced degrees
 - Immigration related, greed related?



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