Graduate Studies

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Iowa Engineering: Designing a Better
Challenge -- The Ever-Changing Face of Engineering

Research: Multiscale (from nano to terra), Increasing Complexity, Holistic Views, Sensing the World, Critical Infrastructure, Environmentally Beneficial Engineering, Health-Centric.....

engineering @iowa
Research Excellence Connected to Learning, Innovation, and Service to Society

High quality research and graduate education are central to the mission of the College of Engineering at The University of Iowa. The College is proud of its production of a substantial volume of externally funded research and of its role in preparing engineering leaders who are equipped with master’s and doctoral degrees. National publications have consistently ranked the quality of graduate education in the College among the top 25% institutions nationally. The College seeks to focus its efforts and resources in those areas of unique strength where true distinction is attainable. These research areas are based on substantial faculty strengths in the College and are well positioned for addressing emerging national needs. In addition, the College is committed to using our research products for the benefit of the state and nation through aggressive technology transfer programs, active involvement in economic development programs, and publication in the open literature.
First Class Faculty & Staff

- 20% of faculty are fellows of societies
- 15% of faculty hold special professorships
- 15% of faculty have received NSF PECASE and CAREER awards
- Faculty providing interdisciplinary leadership
- Editors and/or editorial board members on > 60 journals
- Over 160 new awards (2 new awards per faculty) totaling >$26M
- Expenditures of >$27M, tripled during the last decade, $330K/faculty

First Class Facilities

> 15 facilities
Graduate Studies: the ride of a lifetime!!

Key Elements of Graduate Studies

- Classes
- Qualifying Exam
- Thesis Advisor
- Research
- Proposal
- Committee
- Defense
Cheap Advice

- Graduate studies involving thesis is not primarily about formal classes

- More like apprenticeship – each student has their-own project and the masters may or may not be particularly helpful.

Key words: initiative; tenacity; flexibility; balance and perspective.. and patience
More Cheap Advice

- Choose a research topic and advisor carefully
- Engage in your research right away
- Present and publish…. set a goal of a paper a year…
- *The fox, the wolf and the lion – a fable*
Take Advantage of Opportunities

- Funding opportunities... (*incentives and rewards program*)
  - National Fellowships
  - Internal awards
  - Travel grants
- Division of Sponsored Programs (DSP) staff helps graduate students seek external funding and offer them assistance in preparing proposals for grants with Summer or Fall deadlines.
  - *Including Grant Writing Services*

Pay Attention to Deadlines and Procedures

New and Current Student Information
- Graduate Student Senate
- Academic Grievance Procedure
- Continuous Registration Policy
- Electronic Theses and Dissertations (ETD)
- Graduate Assistantship Bulletin Board
- Graduate College Thesis Manual
- Handbook for New Graduate Students
- Interdisciplinary Graduate Programs
- Manual of Rules and Regulations
- Mentoring of Graduate Students
- New Graduate Student Orientation
- New Student Orientation
- Sources of Financial Support
- The Graduate Experience at The University of Iowa
- Thesis & Dissertation Preparation
- Tuition Scholarship Information
- U of Iowa Postdoctoral Information
- Who to Contact at the Graduate College

Updated: 07/18/2004
Web Resources for Graduate Studies

- Useful info for you: [http://www-personal.umich.edu/~danhorn/graduate.html#sim](http://www-personal.umich.edu/~danhorn/graduate.html#sim)
- How to be a good graduate student: [http://www.cs.indiana.edu/HTMLit/how.2b/how.2b.html](http://www.cs.indiana.edu/HTMLit/how.2b/how.2b.html)
- So long and thanks for the PhD (everything I wanted to know about graduate school at the beginning but didn't learn until later) [http://www.cs.unc.edu/~azuma/hitch4.html](http://www.cs.unc.edu/~azuma/hitch4.html)
- Life (or some variation there of) as a graduate student [http://www.cs.umd.edu/~oleary/gradstudy/node5.html](http://www.cs.umd.edu/~oleary/gradstudy/node5.html)
Activities

- Research Open House - spring
- Graduate Students Recognition Luncheon - spring

Have a great year!!!!

PHD HAIKU
by monitor glow
on conference paper due
a grad student naps

Jorge Cham©The Stanford Daily
Have a great year!!