Introductions

The Graduate School and graduate education

A professor’s role in graduate education

Success in the academy
Introductions

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A professor’s role in graduate education

Success in the academy
Purdue Campuses
Fort Wayne Campus

718 grad students
58% women
12% minority
5.2% Black
2.5% Asian
2.8% Hispanic
Purdue Campuses
North Central Campus

78 Grad students
56% women
9.2% minority
1.3% Black
6.6% Asian
1.3% Hispanic
The Graduate School
Advancing to a Higher Degree

Purdue Campuses
Calumet Campus

1147 Grad Students
58.8% women
23.4% minority
10.5% Black
2.7% Asian
8.7% Hispanic
Indianapolis Campus (IUPUI)

- 634 Grad Students
- 79% MS
- 21% PhDs
- 37% women
- 3.3% Black
- 5.5% Asian
- 2.8% Hispanic
About the Graduate School?

- All degrees awarded through the Graduate Schools.
- The GEA and Graduate Council provide input.
- Graduate Schools of America are well organized. CGS, MAGS (regional), and AAU AGS.
- Midwest schools are well organized: CIC
A Typical Year in the Grad School

- Number of applications
  - 12,050 international
  - 5,226 domestic
- Number of admissions
  - 2,343 international
  - 2,411 domestic
- Number of Masters graduates
  - 1,594
- Number of Doctoral graduates
  - 689
- Est. 1929, Conferred 66k+ MS, 23k+ PhDs
Purdue West Lafayette
Doctoral 4,379, MS 3,176. Minority 18.3%, Women 37.5%
RECRUITMENT SERVICES

Janet Beagle
Associate Director of Recruitment Services
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Jonathan Davidson
Marketing and Communications Manager
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Chris Fugate
Administrative Assistant
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6-3310

Amy Tevault
Graduate Assistant

www.gradschool.purdue.edu/recruitment/index.cfm
Recruitment Services

• Prospective student Web page maintenance, including cost of living comparison

• Materials
• Calendar,
• Reference guide
• Recruiting visits
• Admitted student survey

<table>
<thead>
<tr>
<th>Region</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asia</td>
<td>76%</td>
</tr>
<tr>
<td>China</td>
<td>24%</td>
</tr>
<tr>
<td>India</td>
<td>24%</td>
</tr>
<tr>
<td>Korea</td>
<td>12%</td>
</tr>
<tr>
<td>Other</td>
<td>16%</td>
</tr>
<tr>
<td>Africa</td>
<td>3%</td>
</tr>
<tr>
<td>South America</td>
<td>6%</td>
</tr>
<tr>
<td>Europe</td>
<td>10%</td>
</tr>
</tbody>
</table>
Primary Information Sources (a)

- PrincetonReview.com
- Petersons.com
- Professional organization Web sites
- University information sessions
- University brochures
- Gradschool.com
- US News & World Report's rankings
Primary Information Sources (b)

- Other
- Professional organization rankings
- Internet search engines
- Grad profs, advisors, or mentors
- Undergrad profs, advisors, or mentors
- Friends and family
- University Web sites
- US News & World Report's rankings

Response Percent
How did you FIRST hear about graduate studies at Purdue University?

- Gradschools.com: 0.007
- Purdue recruiter/representative: 0.008
- Radio/TV/magazine ad: 0.009
- Received a brochure or e-mail from Purdue: 0.012
- Graduate school fair or conference: 0.017
- Other (please specify): 0.069
- I was an undergraduate student at Purdue: 0.071
- Web search: 0.097
- U.S. News & World Report Graduate Rankings: 0.155
- Friend/family member: 0.271
- Advisor/professor: 0.284
Multicultural Programs

Dwight Lewis
Director of Multicultural Programs
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49-40945

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Melissa Danner
Administrative Assistant
dannerm@purdue.edu
The Graduate School recruits at universities and conferences and invites prospective students to campus.
AGEP Office
Kathy Sears

- Recruiting
- Mentoring
- AGEP workshops and conferences
- Book project
- Summer Bridge and SROP
Your journey to Career Success…what’s your destination?

http://www.gradschool.purdue.edu/development/
Professional Development Workshops and Seminars

• Research conduct and methodology
• Networking skills
• Ethics
• Etiquette
• Teamwork
• Leadership
• Grant writing and securing external fellowships
• Future faculty preparation
• Interview skills, and so on.
Responsible Conduct of Research
Graduate Student
Learning Outcomes Assessment
(HLC/NCA Accreditation)

Linda Mason
Associate Dean
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49-40245
RCR Workshops
Academic Year 2011 - 2012

– Human Subjects
– Research Integrity
– Authorship & Scholarly Publications
– Data Management

Workshops are repeated each semester
New Degrees and Courses

Graduate Faculty Appointments

Phillip E. Pope
Senior Associate Dean and Professor of Forestry and Natural Resources
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49-46963
PhD Time to Degree

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Advancing to a Higher Degree

PhD Time to Degree

5.80 5.90 6.00 6.10 6.20 6.30 6.40 6.50
The Graduate School
Advancing to a Higher Degree

PhD completion

- Retention
- Completion

Incoming student GPA

What do you look for in new students?

- Fall 2007
- Fall 2008
- Fall 2009
- Fall 2010
- Fall 2011
Peer Ombudsman Program

Joy Beckett, Masaki Kakoi, Erica Morin, Reazur Rahman, Assoc. Dean Tom Atkinson
Office of Interdisciplinary Graduate Programs (OIGP)

Jon A. Story
Senior Associate Dean
Professor of Nutritional Physiology
jastory@purdue.edu
49-67352
Interdisciplinary program enrollment

- 2004: 376
- 2005: 388
- 2006: 412
- 2007: 406
- 2008: 464
- 2009: 502
- 2010: 599
- 2011: 678
Goal of Impact and Global Exposure
Issues and Activities 2010-2015

• Student Recruiting
• Diversity and inclusiveness
• Student support
• International outreach and collaboration
• National and international visibility and stature
• Transition and Retention
• Social Climate
• Professional skills
• Multidisciplinary opportunities
• Inter-campus bonds and relationships
• Interactions with industry and government
• Research
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Success in the academy

[small group discussions]
Points to note: Financial support is the top factor influencing attrition. STEM and non-STEM cultures are different.

How do you support your students?
How do you mentor your students? Make a list.

How can YOU help Purdue University reduce attrition and time to degree? Make a list of ideas
Student support is very important.

Let’s take a look at some “Did you know” tidbits related to student support, fellowships, and research assistantships.

In Science and Engineering, did you know…
Full-time Science & Engineering Students by Percent of Primary Support Mechanism

- 33% Research Assistantships
- 28.1% Fellowships
- 19.1% Traineeships
- 9.1% Teaching Assistantships
- 4% Self Supported

Fellowships
Did you know we lose money on fellowships?

Let’s take a look at some of our premier national fellowships.
National Science Foundation
GRFP   Graduate Research Fellowship (2000 new awards)
IGERT  Integrated Graduate Education & Research Traineeship

National Institutes of Health
NRSA   National Research Service Award

Department of Education
GAANN  Graduate Assistance in Areas of National Need

Department of Defense
NDSEG  National Defense Science and Engineering Graduate Fellowship (200)
SMART  Science, Mathematics, and Research for Transformation (300)

Department of Energy
CSGF   Computational Sciences Graduate Fellowship (80)
SCGF   Office of Science Graduate Fellowship (80)

Environmental Protection Agency
STAR – Science to Achieve Results (80)
<table>
<thead>
<tr>
<th>Organization</th>
<th>Fellowship Type and Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>National Aeronautics and Space Administration</td>
<td>Earth and Space Science Fellowship (70)</td>
</tr>
<tr>
<td>NESSF</td>
<td>Graduate Student Research Program (300)</td>
</tr>
<tr>
<td>GSRP</td>
<td>Aeronautics Scholarship (5)</td>
</tr>
<tr>
<td>Fulbright</td>
<td>Vietnam Education Foundation</td>
</tr>
<tr>
<td>VEF</td>
<td>Institute of International Education</td>
</tr>
<tr>
<td>IIE</td>
<td>Academic and Professional Programs for the Americas</td>
</tr>
<tr>
<td>LASPAU</td>
<td>International Student Fellowship</td>
</tr>
<tr>
<td>Howard Hughes Medical Institute</td>
<td></td>
</tr>
<tr>
<td>Intl</td>
<td>CIC Smithsonian Institute Fellowship</td>
</tr>
<tr>
<td>Committee on Institutional Cooperation</td>
<td>CIC SIC</td>
</tr>
<tr>
<td>National Academies of Sciences</td>
<td>Ford Predoctoral Fellowships (40)</td>
</tr>
<tr>
<td>Rhodes</td>
<td></td>
</tr>
</tbody>
</table>

*Notes:*
- CIC: Committee on Institutional Cooperation
- VEF: Vietnam Education Foundation
- IIE: Institute of International Education
- LASPAU: Academic and Professional Programs for the Americas
- Intl: International Student Fellowship
- CIC SIC: CIC Smithsonian Institute Fellowship
## Funding Levels of Major Fellowships and Traineeships

<table>
<thead>
<tr>
<th>Sponsor</th>
<th>Fellowship</th>
<th>Stipend</th>
<th>Inst. Allowance</th>
<th>Shortfall [34k tuition]</th>
</tr>
</thead>
<tbody>
<tr>
<td>NSF</td>
<td>GRFP &amp; IGERT</td>
<td>$30,000</td>
<td>$10,500</td>
<td>$24,057</td>
</tr>
<tr>
<td>NIH</td>
<td>NRSA</td>
<td>$21,600</td>
<td>$16,000</td>
<td>$18,557</td>
</tr>
<tr>
<td>ED</td>
<td>GAANN</td>
<td>$30,000²</td>
<td>$13,755</td>
<td>$20,802</td>
</tr>
<tr>
<td>DOD</td>
<td>NDSEG</td>
<td>$30,500</td>
<td>Full T&amp;F</td>
<td>$0</td>
</tr>
<tr>
<td></td>
<td>SMART</td>
<td>$25,000 - $41,000</td>
<td></td>
<td>$0</td>
</tr>
<tr>
<td>DOE</td>
<td>CSGF</td>
<td>$36,000</td>
<td>Full T&amp;F</td>
<td>$0</td>
</tr>
<tr>
<td></td>
<td>SCGF</td>
<td>$35,000</td>
<td>$10,500</td>
<td>$24,057</td>
</tr>
<tr>
<td>EPA</td>
<td>STAR</td>
<td><strong>$25,000</strong></td>
<td>$12,000</td>
<td><strong>$22,557</strong></td>
</tr>
</tbody>
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GRFP  Graduate Research Fellowship  
IGERT  Integrated Grad Educ & Res Traineeship
The Graduate School
Advancing to a Higher Degree

Funding Levels of Major Fellowships and Traineeships

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<th>Fellowship</th>
<th>Stipend</th>
<th>Inst. Allowance</th>
<th>shortfall</th>
</tr>
</thead>
</table>
| NASA         | NESSF      | $24,000
table footnote{1} | $3,000 | $31,557 |
|              | GSRP       | $20,000  | $0              | $34,557 |
|              | AERO       | $35,000  | $11,000         | $23,557 |
| Fulbright    | VEF        | $20,000  | $4,000          | $30,557 |
|              | IIE        | Varies   | $0              | $34,557 |
|              | LASPAU     | Varies   | $0              | $34,557 |
| HHMI         | INTL       | $30,000  | $10,000         | $24,557 |
| CIC          | SI         | $30,000  | $0              | $34,557 |
| NAS          | Ford       | $20,000  | $2,000          | $32,557 |
| Rhodes       | Varies     | Full T&F at Oxford | NA |

But, let’s continue to apply for fellowships up to $30,000 – based on department stipend
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A professor’s role in graduate education

Success in the academy

[small group discussions]
Sometimes you can be in a very competitive environment. Does this really happen? What do you do if you’re in this kind of environment? How do you change the culture?
Sometimes you can be in a very competitive environment. Does this really happen? What do you do if you’re in this kind of environment? How do you change the culture?
Have one person in your group take the side of the professor. Have another person take the side of the student. Debate for 4 minutes. Let the group decide who is correct.
Sometimes dealing with colleagues can be challenging.
Professor X is not getting along with colleagues. He is confronted by the department head.

The dialog opens with “Professor X, I need to talk with you about collegiality. I’ve been getting complaints that you are disruptive during committee meetings.”
My personal thanks to Sr. Associate Dean Jon Story for playing the role of Professor X
Have you ever encountered someone with a nonlinear personality?

How would you handle this situation?

What if you were concerned about your personal safety?

Discuss
Characteristics of a good major professor

• Should have a good working relationship with student
• Should be accessible
• Should serve as an advocate
• Should be honest and direct but compassionate
• Should be encouraging
• Should promote self reliance and independent thinking
• Should be a good listener
• Should assist student in achieving career goals
How to succeed in the academy

Maintain collegial relationships with colleagues.
Maintain good relations with your students.
Publish, publish, publish
Become visible externally
Establish a good record of funding and research
Graduate PhD and MS students
Secure awards and honors
What else?
Collaboration is often a university goal

• Build connections among faculty peers – big grants
• Courtesy appointments
• Take advantage of centers, DP and collocation opportunities
Best wishes for a successful career!