ACS Committee on Professional Training
Graduate Education Survey

Thank you for taking the time to complete this questionnaire. The time needed to complete this form varies according to individual circumstances, but the average time is estimated to be 45 minutes. If you need to stop and return to the form at a later time, all of the responses are saved as you answer each question.

All information you provide will treated as CONFIDENTIAL and be available only to members of the ACS Committee on Professional Training and staff in the ACS Office of Professional Training for the purposes of preparing a report on the characteristics of graduate education at colleges and universities in the United States. The published report will include data only in compiled format and will not be associated with any individual institution.

If you have any questions about the survey items or the use of this information, please contact Marta at m_gmurczyk@acs.org or at (202) 872-4599.

To access the survey, please enter the survey code found at the end of the cover letter.

Graduate Student Statistics and Requirements

1. How many graduate students do you have in the Ph.D. program?

1a. How many of the Ph.D. students are international students?

1b. For the Ph.D. students who are U.S. citizens/permanent residents, please list the number who are:
   African American    Hispanic    Native American    Women

2. Among your incoming graduate students who received their undergraduate degree from a U.S. college, approximately what percentage graduated from a chemistry program approved by the American Chemical Society. (For the list of the ACS- approved programs see http://acswebapplications.acs.org/applications/cpt/asl/app_list_results.cfm)

3. Are entering graduate students required to take placement exams to determine their preparation for graduate study?
   O Yes    O No

3a. (Only if question 3 is answered yes) Do you have any programs in place to correct deficiencies (beyond taking undergraduate courses) in preparation for graduate study?
   O Yes    O No

4. Are students required to take formal graduate courses in addition to graduate research and seminars?
   O Yes    O No

4a. (Only if question 4 is answered yes) What is the minimum number of credits of formal graduate courses required, not including research and seminars?

4b. (Only if question 4 is answered yes) Approximately how many of the required credits are within the student’s own field of chemistry (e.g., organic chemistry)?
4c. (Only if question 4 is answered yes) Are these courses taught on the semester or quarter system?
   O Semester
   O Quarter
   O Other

5. Approximately, how many seminars or other presentations (exclusive of the dissertation defense) is a Ph.D. student required to give to audiences other than the student's own research group?

6. Do you require graduate students to create and defend original research proposal(s) in addition to their dissertation proposal?
   O Yes    O No

   6a. (Only if question 6 is answered yes) Can these required research proposal(s) be related to a student's own research?
       O Yes    O No

   6b. (Only if question 6 is answered yes) Is more than one proposal required?
       O Yes    O No

7. Do your requirements for the Ph.D. include any of the following:
   Cumulative examinations O Yes    O No
   Oral Preliminary exam    O Yes    O No
   Comprehensive written exam O Yes    O No
   Comprehensive oral exam O Yes    O No
   Dissertation defense O Yes    O No
   Other O Yes    O No

   If other, please describe: ___________________________________________________________________________

8. Do you have a foreign language requirement for the Ph.D.?
   O Yes    O No

   8a. If yes, which language(s) meet this requirement?

9. Does each graduate student give a public oral presentation of his/her dissertation?
   O Yes    O No

Graduate Student Progression

1. Approximately, what percentage of all graduate students is supported through teaching assistantships (TA)?

   1a. What is the TA stipend range?

   Stipend Range: low $$$ | high $$$

2. Approximately, what percentage of all graduate students is supported through research assistanships from faculty-generated research funds?

3. Are the base stipends for teaching assistants (TAs) and research assistants (RAs) the same?
   O Yes    O No
4. Approximately, what percentage of the total graduate student support is through:

- University or department fellowships
- Government fellowships
- Training grants, interdisciplinary
- Training grants, chemistry
- Industry
- Other

If other, please list: 

5. What percentage of graduate students receives some formal preparation for a faculty position?

5a. Do laboratory section TAs receive formal instructions before they start as TAs?
   - Yes
   - No

5b. What percentage of TAs teaches discussion sections sometime during their graduate career?

5c. Do discussion section TAs receive formal instruction in teaching before they start as TAs?
   - Yes
   - No

6. What percentage of graduate students completes an internship in industry or government laboratories during their graduate school years?

7. What percentage of graduate students receives training outside of formal course work in areas such as:

- Ethics/Scientific integrity
- Intellectual property/patents
- Communication skills
- Business/economics
- Mentoring
- Grant writing
- Other

8. What percentage of graduate students:

8a. Participates in interdisciplinary projects involving other departments?

8b. Has more than one advisor?

8c. If more than one advisor, are they all from the:
   - Same department
   - Different departments

9. Upon entering the graduate program, what percentage of students selects a research advisor within the first:

- 2 months
- 6 months
- 1 year
- later

10. In the process of selecting a research advisor, faculty members speak about their research to the entering students:

   - As a group
   - Individually
   - Both
11. Do you require or permit laboratory rotations before a final advisor is chosen?
   - Require
   - Permit
   - Neither

12. Is there a limit to the number of graduate students an advisor may accept into his/her research group?
   - Yes
   - No

13. Is there an upper limit on the amount of time allowed for achieving a Ph.D.?
   - Yes
   - No
   13a. If yes, how many years?

14. Is there an upper limit on years of support (of any kind)?
   - Yes
   - No
   14a. If yes, how many years?

15. What is the average number of years for completion of a Ph.D. degree?

16. Does your department have a Director of Graduate Studies?
   - Yes
   - No
   16a. (Only if question 16 is answered yes) Is the Director of Graduate Studies:
      - A tenured/tenure-track faculty member
      - A nontenure-track faculty member
      - Not a faculty member

17. Does each graduate student have an advisory committee that follows his/her progress through graduate study?
   - Yes
   - No
   17a. (Only if question 17 is answered yes) Do all advisory committee members serve on the final Ph.D. committee?
      - Yes
      - No
   17b. (Only if question 17 is answered yes) Is the research advisor a member of the student’s advisory committee?
      - Yes
      - No

18. Are mechanisms in place to ensure that the graduate student is aware of and understands the requirements for Ph.D.?
   - Yes
   - No
   18a. If yes, please describe:

19. Is there a graduate student handbook prepared by the department?
   - Yes
   - No

20. Are mechanisms in place for the students to evaluate their progress throughout the Ph.D. experience?
   - Yes
   - No
   20a. If yes, briefly explain:
Faculty and Departmental Structure

1. What is the TOTAL number of tenure-track and tenured faculty in your department?

<table>
<thead>
<tr>
<th>Total Number</th>
<th>Tenured</th>
<th>Not tenured but tenure-track</th>
</tr>
</thead>
</table>

1a. What is the number of tenure-track and tenured faculty in your department in the following categories:

<table>
<thead>
<tr>
<th>Category</th>
<th>Tenured</th>
<th>Not tenured but tenure-track</th>
</tr>
</thead>
<tbody>
<tr>
<td>African American</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hispanic</td>
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<tr>
<td>Native American</td>
<td></td>
<td></td>
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<tr>
<td>Women</td>
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<td></td>
</tr>
</tbody>
</table>

1b. How many of your tenured and tenure-track faculty received at least one of their post-secondary degrees outside of the U.S.?

2. Do you have regular colloquia, either department wide or divisional?
   - Yes
   - No

2a. (Only if question 2 is answered yes) What percentage of the colloquia speakers comes from industry? (Estimate to the nearest 10%).

2b. (Only if question 2 is answered yes) What percentage of the colloquia speakers comes from government? (Estimate to the nearest 10%).

3. Is there a formal graduate student organization (or graduate affairs committee)? (Check all that apply.)
   - In the department
   - At the institution (campuswide)
   - No formal graduate student organization

4. Are mechanisms in place for the graduate student organization or individual graduate students to participate in the policies of the department, such as:

4a. Responsibility for the seminar program (selecting and hosting the speakers)?
   - Yes
   - No

4b. Representation on faculty committees such as: (Check all that apply.)
   - Department seminar committees
   - Faculty search committees
   - Graduate program committee (Ph.D. requirements, graduate courses)
   - Graduate admissions committee
   - Graduate advisory and appeals committee
   - Instrumentation committee
   - Other

   If other, please explain:

4c. Is there a meeting place or commons specifically for graduate students?
   - Yes
   - No
5. Where do the students obtain information on careers and/or skills needed to obtain jobs or postdoctoral positions? (Check all that apply.)

- Departmental events
- Research advisor
- University Placement/Career Center
- Departmental Bulletin Boards
- Departmental Websites
- American Chemical Society
- Other

If other, please list:

5a. Does the department have a system of tracking the employment of its doctoral students after they graduate (e.g., an alumni data base)?

- Yes
- No

6. How many postdoctoral fellows are currently in the department?

6a. What percentage of these postdoctoral fellows is international?

7. For new assistant professors hired in the past three years:

7a. What is the average starting salary (9-10 month basis)?

7b. What is the average dollar value of start-up packages?

8. Please list the approximate percentage (to the nearest 10%) of your department's research funding for the current year that comes from:

- NIH
- NSF
- Department of Energy
- Department of Defense
- Department of Homeland Security
- ACS-PRF
- Private Foundation
- Industry
- Other

If other, please list:

9. Is your department organized divisionally (organic, physical, etc.)?

- Yes
- No

9a. Is a biochemistry (or chemical biology, or similar) division part of your department?

- Yes
- No

10. Does your institution/department have any procedures in place to provide family services for the faculty?

- Yes
- No
10a. (Only if question 10 is answered yes) Which family services does the institution provide? (Check all that apply.)

- Child care
- Extended tenure decision
- Parental/family leave
- Other

If other, please describe:

10b. (Only if question 10 is answered yes) Are postdoctoral associates able to use any of these services?

- O Yes
- O No

10c. (Only if question 10 is answered yes) Are graduate students able to use any of these services?

- O Yes
- O No

11. Has the department made any significant changes in the doctoral program in the last five years?

- O Yes
- O No

11a. If yes, please briefly describe them:

12. How frequently is the department's graduate program reviewed (please check)?

<table>
<thead>
<tr>
<th>Self Evaluation</th>
<th>Annually</th>
<th>Biennially</th>
<th>Five-Year Intervals</th>
<th>No set schedule</th>
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</table>

13. Please add any additional comments that you wish to, concerning the Ph.D. program in your department.

14. Your institution is:

- O Public University
- O Private University

Master's Program Survey

1. Which master's degree(s) does your department offer? (Please check all that apply)

- Master of Science
- Master of Arts
- Master of Materials Science
- Master of Arts in Teaching
- Professional Master's
- Other

If other, please list:

1a. Do you have an interdepartmental program for a master's that is not granted by your department?

- O Yes
- O No

2. On average how many master’s degrees do you award annually as a final degree?
3. What percentage of students who enter your Ph.D. program terminates their graduate studies with a master’s degree?

4. What is the number of years required to earn a master’s degree?
   Minimum  
   Typical  

5. How many credits of formal graduate courses, excluding research, are required for a master’s degree?

5a. Are these taught on the semester or quarter system?
   O Semester
   O Quarter
   O Other

6. Is a research thesis required for the master’s degree?
   O Yes  O No

6a. (Only if question 6 is answered no) Can a master’s degree be earned by: (Check all that apply)
   Taking coursework only
   Taking coursework and doing research without a required thesis
   Taking courses and writing a library thesis

7. Are there specific qualifying and/or comprehensive exams required for master’s degree students?
   O Yes  O No

7a. (Only if question 7 is answered yes) Do qualifying and/or comprehensive exams required for masters degree students differ from those taken by Ph.D. degree candidates?
   O Yes  O No

Does your department regularly admit students whose stated objective is obtaining a master’s degree, not a PhD degree?
   O Yes  O No

The following questions relate to students admitted specifically to your master’s program (only if previous question is answered yes).

8. How many students are admitted annually for study in the master’s program?

9. Among students admitted into your master’s program, what percentage received their bachelor’s degree in the U.S. and what percentage received this degree outside of the U.S?
   Domestic  
   Foreign  

10. Which of the following describes the goals of your master’s program(s)?

10a. Preparation for working in industry:
   O Yes  O No

   If yes, is it: (Please check all that apply):
   A partnership with a specific employer
   Focused on a particular sector (e.g., polymers)
   Other

   If other, please list:
10b. Teacher training
   O Yes  O No
   If yes, is it: (Please check all that apply):
   [ ] For in-service teachers
   [ ] For pre-service teachers
   [ ] Other
   If other, please describe:

10c. Preparation for more advanced study
   O Yes  O No

10d. Combined BS/MS program
   O Yes  O No

11. Is your master's degree program specifically designed to prepare students for employment with the master's as the highest earned degree?
   O Yes  O No
   11a. If yes, please explain:

12. Do you provide support for your master’s students in the form of:
   [ ] Teaching assistantships
   [ ] Research assistantships
   [ ] Other
   If other, please explain:

13. Did the Chair receive this survey and approve the responses?
   O Yes  O No