

# **2022 CRA Taulbee Survey - Main**

**of Ph.D.-granting Academic Units of  
Computer Science, Computer Engineering, and Information**

## **Main Survey Changes This Year**

### **New this year**

In Section F (Other PhD questions) we have added questions about the number of applications your academic unit received for the PhD program beginning with the current academic year (2022-2023). Question 7 asks for number of applications by gender, divided by international and domestic students. Question 8 asks for a further breakdown of domestic applications by race/ethnicity. Question 9 asks for history of total number of applications, international and domestic, by year for 2019-2021 so we can begin to track trends.

### **New last year, continuing.**

The questions about students receiving disabilities accommodations and undergraduates receiving Pell grants were added last year and continue.

### **Removed this year**

Profiles questions, asked every three years, are removed. Most of these were in their own section, but a few are removed from Section S (Research Expenditures and Graduate Student Support).

## **Section By Section Changes**

### **1. Section F, Other PhD Questions.**

One change has been made to Question 3 on Newly Admitted PhD Students.

New last year, we asked for the number of new students who were admitted but did not enroll. The wording on this question has been changed to clarify that we want the number of students who were admitted but chose to defer enrollment.

Questions 7, 8, and 9 have been added to collect data on applications to your academic unit.

2. **Section J, Other Masters Questions.** Parallel to the change in Section F Question 3 for new PhD students, we changed wording on Question 1 to clarify that we want the number of students who were admitted but chose to defer enrollment.
  
3. **Section S, Research Expenditures and Graduate Student Support.** The question about the academic unit budget, part of the Profiles questions, has been removed. The breakdown of research expenditures by source of funds, also a Profiles question, was removed; only the total research expenditures are now asked for.

## Section A. Reporting Structure and Data Release.

### 1. Scope of Reporting.

The following questions will help us customize the survey sections you see and the reminders you are sent.

	<b>CS</b>	<b>CE</b>	<b>Info</b>
a. Does your academic unit have an UNDERGRADUATE program in ...	Yes/No	Yes/No	Yes/No
b. Does your academic unit have a MASTERS program in ...	Yes/No	Yes/No	Yes/No
c. Does your academic unit have a DOCTORAL program in ...	Yes/No	Yes/No	Yes/No

d. Did you award any DOCTORAL degrees in CS, CE, or Information in the academic year ending June 30, 2022? Yes/ No

### 2. Survey Response Scope

If responses cover more than one department, please identify the additional departments

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### 3. Formal Data Release

This question requests permission for CRA committees (in particular CRA-WP and CRA-E) to use your institutional data for purposes beyond Taulbee reporting. We are asking for this permission because demonstrating that our activities are proving effective is becoming more and more critical and determining effectiveness requires us to know who is doing what. There is simply no other source of such information than the Taulbee Survey.

As always, only aggregate data (not identifiable to a single institution or individual) will be released. Your individual institutional responses will be seen only by CRA staff and paid consultants, not by CRA volunteers. No financial data (salaries or research expenditures) will be included in these additional analyses.

May departmental data be used by CRA committees as described above?

\_\_\_\_ Permission granted

\_\_\_\_ Permission not granted

#### **4. Benchmarking permission for non-financial information**

General benchmarking allows you to compare your unit's data for variables other than faculty salaries and research expenditures with a peer group of your choosing. So, for example, you might compare enrollment at undergraduate, master's, and doctoral levels with your peer group. This permission is separate from the salary benchmarking permission in the Salary Survey; you can permit general benchmarking but not permit salary benchmarking. To use this feature, you must be a CRA member and must grant permission for your unit's data to be used if others want to include your unit in their peer group. Use of your data in benchmarking will not reveal your individual unit data; other units can see only aggregates of at least 8 academic units.

If you do not grant permission, your data will only be used in developing general statistics for published Taulbee reports.

Do you allow your general data (non-salary, non-research-expenditure) to be used in benchmarking?

Permission granted

Permission not granted

## **Section B. Other Department Questions.**

**Not used this year**

## Section C. PhD Degree Titles.

Provide the official titles of PhD degrees now offered by your academic unit and the first year the degree was awarded or will likely be awarded. Online survey will allow you to copy your answers from last year and will allow an unlimited number of degree titles.

<b>Field (CS/CE/I)</b>	<b>Year first awarded</b>	<b>Title</b>

## Section D. PhDs Awarded.

Data from the PhDs Awarded section may be uploaded from a spreadsheet or entered manually. Instructions on spreadsheet preparation are on the next page if you choose this option.

Please identify the gender, ethnicity, current employment, and specialty area for each Ph.D. awarded last year (July 1, 2021 - June 30, 2022). Please make every effort to ascertain this information. Use the “unknown” categories only as a last resort.

The online form allows entry of an unlimited number of PhDs awarded.

Int Ref	Field	Gender	Ethnicity	Employment Type	Employment Location	Specialty (primary and, if any, secondary)	
	See category values, below					See categories	
						Primary	Second
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
21							
22							

**Categories.** These are drop-down menus in the online survey. If preparing a spreadsheet for upload, the **field values must be exactly as shown below** including capitalization and punctuation.

**Field**

Computer Science  
Computer Engineering  
Information

**Gender**

Male  
Female  
Nonbinary/Other  
Unknown

**Ethnicity**

Resident African American Non Hispanic  
Resident Native American or Alaskan Native  
Resident Asian  
Resident Native Hawaiian or Pacific Islander  
Resident Hispanic

Resident White Non Hispanic  
Resident More than one race specified non Hispanic  
Resident Ethnicity Unknown  
Nonresident Alien  
Residency Status Unknown

**Employment Type**

PhD Dept Tenure Track  
PhD Dept Teaching  
PhD Dept Research  
PhD Dept Postdoc  
Other CS/CE/I Dept  
Non CS/CE/I Dept  
Industry Research  
Industry Non-Research  
Industry Postdoc  
Industry Type Unknown  
Government  
Self-Employed  
Unemployed  
Other  
Unknown

**Employment Location**

United States  
Canada  
India  
China  
EU Country  
Other  
Unknown

**Specialty**

Artificial Intelligence/Machine Learning  
Computing Education  
Databases/Information Retrieval  
Graphics/Visualization  
Hardware/Architecture  
High Performance Computing  
Human-Computer Interaction  
Informatics: Biomedical/Other Science  
Information Science  
Information Systems

Networks  
Operating Systems  
Programming Languages/Compilers  
Robotics/Vision  
Scientific/Numerical Computing  
Security/Information Assurance  
Social Computing/Social Informatics/CSCW  
Software Engineering  
Theory and Algorithms  
Other  
Unknown

\* If you use the "Other" category under specialty, please write in a description of the "other" area in the following text field.

## Spreadsheet Instructions

### Preparing Spreadsheet

To upload PhDs awarded from a spreadsheet, first create a spreadsheet matching the following specifications. Users can download a sample csv spreadsheet from the downloads tab within the online Taulbee system.

Format can be xlsx, xls, or csv

Order of fields/columns must follow order in survey, as shown in the table above.

A header row is allowed, but not required. If used, it must contain just this:  
intref,field,gender,race,type,loc,spec1,spec1oth,spec2,spec2oth

The “Internal Reference (intref)” field is for your use in tracking your entries and can be anything. We recommend that it be 15 characters or less. It should not contain sensitive information or be something easily identifiable like full name.

In Field, Gender, Ethnicity, Employment Type, Employment Location, and Specialty fields (primary and secondary), use complete category values as listed in Categories above, including capitalization and punctuation/spacing.

Each specialty field (spec1 and spec2) is followed by an “other” text field (spec1oth and spec2oth) for description of a specialty that does not fit any of the existing categories.

Only the following fields are allowed to be blank: Internal reference number, secondary specialty (spec2) and the “other” specialty description fields spec1oth and spec2oth. For all other fields, use the “unknown” value for that field if the correct value cannot be determined.

If the format is Excel (xls or xlsx), blank cells must be completely empty. Entry of a blank or nonprinting character may cause an error message.

If you are using a csv format, null/empty fields should be indicated by commas, e.g.:

intref,field,gender,race,type,loc,spec1,spec1oth,spec2,spec2oth  
refid1, Computer Science, Female, Hispanic, Industry Research, United States,  
Artificial Intelligence,,Robotics/Vision,

## **Uploading Spreadsheet**

When the upload function is ready, the survey menu for the Taulbee Part 2: Main survey will display an “Upload Data (Optional)” box between the “Survey Status” box and the “Survey Form” box.

Click the “Choose Data File” button to select your prepared spreadsheet, then click the “Upload” button.

Each row will be checked for errors. If any errors are found, the entire spreadsheet will be rejected. Correct the errors and re-upload.



**Mixing upload and manual data entry.**

Uploading a spreadsheet erases all previously entered data for PhDs awarded, if any, whether from a previous spreadsheet or from manual entry.

After upload, you may edit entries or add new rows. If you re-upload after editing the online form, any changes you made will be overwritten by the spreadsheet.

## Section E. Ph.D. Enrollment

How many Ph.D. students were enrolled on average last year (July 1, 2021 - June 30, 2022), categorized by gender and ethnicity? If your academic unit does not distinguish between master's and Ph.D. students, provide estimates based on students' intentions for obtaining a degree. If your academic unit does distinguish, consider only students enrolled at that time in the Ph.D. program. Include those who received their degrees in that time period.

***If you can provide the gender x ethnicity breakdown***, then enter those numbers in the appropriate rows/columns. Do not total the rows or columns; totals will be automatically computed by the online system. Use the Not Available column or row for individuals whose category is not known.

***If you cannot provide the gender x ethnicity breakdown***, but can provide gender totals then enter the gender numbers in row j (Residency/Ethnicity Not Available) and leave blank the remainder of the table. Do not provide the ethnicity breakdown separately. If you cannot provide the gender breakdown but can provide the total number of students, enter that number in the Not Available / Not Available cell.

Note that CS, CE, and I are entered in separate questions. All three grids will be displayed; leave blank ones that do not apply to your academic unit.

<b>1. Ph.D. Enrollment – CS ONLY</b>	<b>Male</b>	<b>Female</b>	<b>Non-binary / Other</b>	<b>Not Available</b>
a. Resident, American Indian or Alaska Native, not Hispanic				
b. Resident, Asian, not Hispanic				
c. Resident, Black or African-American, not Hispanic				
d. Resident, Native Hawaiian or other Pacific Islander, not Hispanic				
e. Resident White, Non-Hispanic				
f. Resident, more than one race, not Hispanic				
g. Resident, Hispanic or Latino, any race				
h. Resident, Race/Ethnicity Unknown				
i. Nonresident Alien				
j. Not Available				

<b>2. Ph.D. Enrollment – CE ONLY</b>	<b>Male</b>	<b>Female</b>	<b>Non-binary / Other</b>	<b>Not Available</b>
a. Resident, American Indian or Alaska Native, not Hispanic				
b. Resident, Asian, not Hispanic				
c. Resident, Black or African-American, not Hispanic				
d. Resident, Native Hawaiian or other Pacific Islander, not Hispanic				
e. Resident White, Non-Hispanic				
f. Resident, more than one race, not Hispanic				
g. Resident, Hispanic or Latino, any race				
h. Resident, Race/Ethnicity Unknown				
i. Nonresident Alien				
j. Not Available				

<b>3. Ph.D. Enrollment – INFO ONLY</b>	<b>Male</b>	<b>Female</b>	<b>Non-binary / Other</b>	<b>Not Available</b>
a. Resident, American Indian or Alaska Native, not Hispanic				
b. Resident, Asian, not Hispanic				
c. Resident, Black or African-American, not Hispanic				
d. Resident, Native Hawaiian or other Pacific Islander, not Hispanic				
e. Resident White, Non-Hispanic				
f. Resident, more than one race, not Hispanic				
g. Resident, Hispanic or Latino, any race				
h. Resident, Race/Ethnicity Unknown				
i. Nonresident Alien				
j. Not Available				

## Section F. Other Ph.D. Questions

1. How many students passed the Ph.D. qualifying examination (first major screening examination or other equivalent mechanism used by your institution) during the period July 1, 2021 - June 30, 2022?

\_\_\_\_\_

2a. Does your academic unit have a preliminary/comprehensive examination (thesis proposal exam preceding the final defense)?

- Yes
- No

2b. If Yes, how many students passed the thesis proposal exam during the period July 1, 2021 - June 30, 2022?

\_\_\_\_\_

3. Newly admitted PhD Students.

How many newly admitted Ph.D. students are enrolled **this fall**? Include both full- and part-time students. Students newly admitted simultaneously to the master's and Ph.D. programs should be counted in the first row.

New Students Fall 2022	CS	CE	I
Newly Admitted Ph.D. Students			
Students Newly Transferred from the Master's to Ph.D. Program			

How many students were newly admitted to the program for this fall, but deferred enrollment?

	CS	CE	I
Deferred enrollment to Jan 2023 or to fall 2023			

<b>New Ph.D. Enrollment – CS ONLY</b>	<b>Male</b>	<b>Female</b>	<b>Non-binary / Other</b>	<b>Not Available</b>
a. Resident, American Indian or Alaska Native, not Hispanic				
b. Resident, Asian, not Hispanic				
c. Resident, Black or African-American, not Hispanic				
d. Resident, Native Hawaiian or other Pacific Islander, not Hispanic				
e. Resident White, Non-Hispanic				
f. Resident, more than one race, not Hispanic				
g. Resident, Hispanic or Latino, any race				
h. Resident, Race/Ethnicity Unknown				
i. Nonresident Alien				
j. Not Available				

<b>New Ph.D. Enrollment – CE ONLY</b>	<b>Male</b>	<b>Female</b>	<b>Non-binary / Other</b>	<b>Not Available</b>
a. Resident, American Indian or Alaska Native, not Hispanic				
b. Resident, Asian, not Hispanic				
c. Resident, Black or African-American, not Hispanic				
d. Resident, Native Hawaiian or other Pacific Islander, not Hispanic				
e. Resident White, Non-Hispanic				
f. Resident, more than one race, not Hispanic				
g. Resident, Hispanic or Latino, any race				
h. Resident, Race/Ethnicity Unknown				
i. Nonresident Alien				
j. Not Available				

<b>New Ph.D. Enrollment – INFO ONLY</b>	<b>Male</b>	<b>Female</b>	<b>Non-binary / Other</b>	<b>Not Available</b>
a. Resident, American Indian or Alaska Native, not Hispanic				
b. Resident, Asian, not Hispanic				
c. Resident, Black or African-American, not Hispanic				
d. Resident, Native Hawaiian or other Pacific Islander, not Hispanic				
e. Resident White, Non-Hispanic				
f. Resident, more than one race, not Hispanic				
g. Resident, Hispanic or Latino, any race				
h. Resident, Race/Ethnicity Unknown				
i. Nonresident Alien				
j. Not Available				

4. How many of the newly enrolled Ph.D. students, both newly admitted and newly transferred from the master's program, are from outside North America? Enter 0 if there are no new students from outside North America; please leave blank ONLY if this information is not available.

CS \_\_\_\_\_ CE \_\_\_\_\_ I \_\_\_\_\_

5. How many Ph.D.s are expected to be awarded in the current academic year (July 1, 2022 - June 30, 2023)?

CS \_\_\_\_\_ CE \_\_\_\_\_ I \_\_\_\_\_

6. How many of your PhD students received accommodations for disabilities from your institution at any time during the academic year 2021-2022? \_\_\_\_

6a. Any comments about availability of data on accommodations for PhD students

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7. Questions 7 and 8 are about APPLICATIONS for your PhD program for the 2022-2023 academic year. If your academic unit does not distinguish between master's and Ph.D. students, provide estimates based on students' intentions for obtaining a degree. If your academic unit does distinguish, consider only students applying for the Ph.D. program.

<b>Total PhD Applications (CS, CE, and Info together)</b>	<b>Male</b>	<b>Female</b>	<b>Non-binary / Other</b>	<b>Not Available</b>
a. International Students				
b. Domestic Students (citizen/perm res)				

8. Question 7 asked for applications by gender and by domestic/international status. This question asks for a further breakdown by gender and race/ethnicity for the domestic students only. The total for each column in this table should equal the number in the corresponding column of row b of question 7.

<b>Race/Ethnicity Breakdown of Domestic (citizen/perm resident) PhD Applications (CS, CE, and Info together)</b>	<b>Male</b>	<b>Female</b>	<b>Non-binary / Other</b>	<b>Not Available</b>
a. Resident, American Indian or Alaska Native, not Hispanic				
b. Resident, Asian, not Hispanic				
c. Resident, Black or African-American, not Hispanic				
d. Resident, Native Hawaiian or other Pacific Islander, not Hispanic				
e. Resident White, Non-Hispanic				
f. Resident, more than one race, not Hispanic				
g. Resident, Hispanic or Latino, any race				
h. Resident, Race/Ethnicity Unknown				

9. Question 9 is being asked only in 2022, to provide some history of domestic/international applications so that we can begin looking at trends.

Total PhD Applications (CS, CE, and Info together, all genders together for the academic year beginning in)	2019	2020	2021
a. International Students			
b. Domestic Students (citizen/perm resident)			



## Section G1. Masters Degree Preliminary Questions.

1. What types of master's programs does your unit offer? Please check all programs offered. Online programs are those that are fully online (no physical attendance required) and hybrid programs are those with limited physical attendance required. This is not intended to include cases where there are online or hybrid options for some courses in a campus-based master's program, only entire programs which are designed to be online or hybrid.

	Campus	Online	Hybrid
Professional master's program			
Academic or undesignated master's program			

2. If you have online or hybrid programs, do you normally include the data from these programs in your Taulbee counts of master's degrees awarded and enrollment?

	Yes	No	Don't Have	Other	If Other, please specify
Online					
Hybrid					

## Section G2. Masters Degree Titles.

Provide the official titles of Masters degrees now offered by your academic unit. Online survey will allow you to copy your answers from last year and will allow an unlimited number of degree titles.

Field (CS/CE/I)	Title

## Section H. Masters Degrees Awarded

How many master’s degrees were awarded last year (July 1, 2021 - June 30, 2022), categorized by gender and ethnicity?

***If you can provide the gender x ethnicity breakdown***, then enter those numbers in the appropriate rows/columns. Do not total the rows or columns. Use the Not Available column or row for individuals whose category is not known.

***If you cannot provide the gender x ethnicity breakdown***, but can provide gender totals then enter the gender numbers in row j (Residency/Ethnicity Not Available) and leave blank the remainder of the table. Do not provide the ethnicity breakdown separately. If you cannot provide the gender breakdown but can provide the total number of students, enter that number in the Not Available / Not Available cell.

Note that CS, CE, and I are entered in separate questions. All three grids will be displayed; leave blank ones that do not apply to your academic unit.

<b>1. Master’s Awarded – CS ONLY</b>	<b>Male</b>	<b>Female</b>	<b>Non-binary / Other</b>	<b>Not Available</b>
a. Resident, American Indian or Alaska Native, not Hispanic				
b. Resident, Asian, not Hispanic				
c. Resident, Black or African-American, not Hispanic				
d. Resident, Native Hawaiian or other Pacific Islander, not Hispanic				
e. Resident White, Non-Hispanic				
f. Resident, more than one race, not Hispanic				
g. Resident, Hispanic or Latino, any race				
h. Resident, Race/Ethnicity Unknown				
i. Nonresident Alien				
j. Not Available				

<b>2. Master's Awarded – CE ONLY</b>	<b>Male</b>	<b>Female</b>	<b>Non-binary / Other</b>	<b>Not Available</b>
a. Resident, American Indian or Alaska Native, not Hispanic				
b. Resident, Asian, not Hispanic				
c. Resident, Black or African-American, not Hispanic				
d. Resident, Native Hawaiian or other Pacific Islander, not Hispanic				
e. Resident White, Non-Hispanic				
f. Resident, more than one race, not Hispanic				
g. Resident, Hispanic or Latino, any race				
h. Resident, Race/Ethnicity Unknown				
i. Nonresident Alien				
j. Not Available				

<b>3. Master's Awarded – INFO ONLY</b>	<b>Male</b>	<b>Female</b>	<b>Non-binary / Other</b>	<b>Not Available</b>
a. Resident, American Indian or Alaska Native, not Hispanic				
b. Resident, Asian, not Hispanic				
c. Resident, Black or African-American, not Hispanic				
d. Resident, Native Hawaiian or other Pacific Islander, not Hispanic				
e. Resident White, Non-Hispanic				
f. Resident, more than one race, not Hispanic				
g. Resident, Hispanic or Latino, any race				
h. Resident, Race/Ethnicity Unknown				
i. Nonresident Alien				
j. Not Available				

## Section I. Masters Enrollment

How many master's students were enrolled on average last year (July 1, 2021 - June 30, 2022), categorized by gender and ethnicity? If your academic unit does not distinguish between master's and Ph.D. students, provide estimates based on students' intentions for obtaining a degree. If your academic unit does distinguish, consider only students enrolled at that time in the master's program. Include those who received their degrees in the same time period.

***If you can provide the gender x ethnicity breakdown***, then enter those numbers in the appropriate rows/columns. Do not total the rows or columns. Use the Not Available column or row for individuals whose category is not known.

***If you cannot provide the gender x ethnicity breakdown***, but can provide gender totals then enter the gender numbers in row j (Residency/Ethnicity Not Available) and leave blank the remainder of the table. Do not provide the ethnicity breakdown separately. If you cannot provide the gender breakdown but can provide the total number of students, enter that number in the Not Available / Not Available cell.

Note that CS, CE, and I are entered in separate questions. All three grids will be displayed; leave blank ones that do not apply to your academic unit.

<b>1. Masters Enrollment – CS ONLY</b>	<b>Male</b>	<b>Female</b>	<b>Non-binary / Other</b>	<b>Not Available</b>
a. Resident, American Indian or Alaska Native, not Hispanic				
b. Resident, Asian, not Hispanic				
c. Resident, Black or African-American, not Hispanic				
d. Resident, Native Hawaiian or other Pacific Islander, not Hispanic				
e. Resident White, Non-Hispanic				
f. Resident, more than one race, not Hispanic				
g. Resident, Hispanic or Latino, any race				
h. Resident, Race/Ethnicity Unknown				
i. Nonresident Alien				
j. Not Available				

<b>2. Masters Enrollment – CE ONLY</b>	<b>Male</b>	<b>Female</b>	<b>Non-binary / Other</b>	<b>Not Available</b>
a. Resident, American Indian or Alaska Native, not Hispanic				
b. Resident, Asian, not Hispanic				
c. Resident, Black or African-American, not Hispanic				
d. Resident, Native Hawaiian or other Pacific Islander, not Hispanic				
e. Resident White, Non-Hispanic				
f. Resident, more than one race, not Hispanic				
g. Resident, Hispanic or Latino, any race				
h. Resident, Race/Ethnicity Unknown				
i. Nonresident Alien				
j. Not Available				

<b>3. Masters Enrollment – INFO ONLY</b>	<b>Male</b>	<b>Female</b>	<b>Non-binary / Other</b>	<b>Not Available</b>
a. Resident, American Indian or Alaska Native, not Hispanic				
b. Resident, Asian, not Hispanic				
c. Resident, Black or African-American, not Hispanic				
d. Resident, Native Hawaiian or other Pacific Islander, not Hispanic				
e. Resident White, Non-Hispanic				
f. Resident, more than one race, not Hispanic				
g. Resident, Hispanic or Latino, any race				
h. Resident, Race/Ethnicity Unknown				
i. Nonresident Alien				
j. Not Available				

## Section J. Other Masters Questions

**1. Newly-admitted masters students**

How many newly admitted master's students are enrolled ***this fall***, i.e. fall 2022? Include both full- and part-time students. If your academic unit does not distinguish between master's and Ph.D. students, provide estimates based on students' intentions for obtaining a degree. If your unit does distinguish, consider only students new to the master's program.

CS \_\_\_\_\_ CE \_\_\_\_\_ I \_\_\_\_\_

How many master's students were newly admitted to the program but deferred enrollment?

	CS	CE	I
Deferred enrollment to Jan 2023 or to fall 2023			

**2. How many of the newly enrolled master's students are from outside North America? Enter 0 if there are no new students from outside North America; please leave blank ONLY if this information is not available.**

CS \_\_\_\_\_ CE \_\_\_\_\_ I \_\_\_\_\_

**3. How many master's degrees are expected to be awarded in the current academic year (July 1, 2022 - June 30, 2023)?**

CS \_\_\_\_\_ CE \_\_\_\_\_ I \_\_\_\_\_

**4. How many of your master's students received accommodations for disabilities from your institution at any time during the academic year 2021-2022? \_\_\_\_**

**4a. Any comments about availability of data on accommodations for master's students**

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## Section K. Bachelors Degree Titles.

Provide the official titles of Bachelors degrees now offered by your academic unit. Online survey will allow you to copy your answers from last year and will allow an unlimited number of degree titles.

Field (CS/CE/I)	Title

## Section L. Bachelors Degrees Awarded

How many bachelors degrees were awarded last year (July 1, 2021 - June 30, 2022), categorized by gender and ethnicity?

***If you can provide the gender x ethnicity breakdown***, then enter those numbers in the appropriate rows/columns. Do not total the rows or columns. Use the Not Available column or row for individuals whose category is not known.

***If you cannot provide the gender x ethnicity breakdown***, but can provide gender totals then enter the gender numbers in row j (Residency/Ethnicity Not Available) and leave blank the remainder of the table. Do not provide the ethnicity breakdown separately. If you cannot provide the gender breakdown but can provide the total number of students, enter that number in the Not Available / Not Available cell.

Note that CS, CE, and I are entered in separate questions. All three grids will be displayed; leave blank ones that do not apply to your academic unit.

<b>1. Bachelors Awarded – CS ONLY</b>	<b>Male</b>	<b>Female</b>	<b>Non-binary / Other</b>	<b>Not Available</b>
a. Resident, American Indian or Alaska Native, not Hispanic				
b. Resident, Asian, not Hispanic				
c. Resident, Black or African-American, not Hispanic				
d. Resident, Native Hawaiian or other Pacific Islander, not Hispanic				
e. Resident White, Non-Hispanic				
f. Resident, more than one race, not Hispanic				
g. Resident, Hispanic or Latino, any race				
h. Resident, Race/Ethnicity Unknown				
i. Nonresident Alien				
j. Not Available				



<b>2. Bachelors Awarded – CE ONLY</b>	<b>Male</b>	<b>Female</b>	<b>Non-binary / Other</b>	<b>Not Available</b>
a. Resident, American Indian or Alaska Native, not Hispanic				
b. Resident, Asian, not Hispanic				
c. Resident, Black or African-American, not Hispanic				
d. Resident, Native Hawaiian or other Pacific Islander, not Hispanic				
e. Resident White, Non-Hispanic				
f. Resident, more than one race, not Hispanic				
g. Resident, Hispanic or Latino, any race				
h. Resident, Race/Ethnicity Unknown				
i. Nonresident Alien				
j. Not Available				

<b>3. Bachelors Awarded – INFO ONLY</b>	<b>Male</b>	<b>Female</b>	<b>Non-binary / Other</b>	<b>Not Available</b>
a. Resident, American Indian or Alaska Native, not Hispanic				
b. Resident, Asian, not Hispanic				
c. Resident, Black or African-American, not Hispanic				
d. Resident, Native Hawaiian or other Pacific Islander, not Hispanic				
e. Resident White, Non-Hispanic				
f. Resident, more than one race, not Hispanic				
g. Resident, Hispanic or Latino, any race				
h. Resident, Race/Ethnicity Unknown				
i. Nonresident Alien				
j. Not Available				

## Section M. Bachelors Enrollment

How many bachelors students were enrolled on average last year (July 1, 2021 - June 30, 2022), categorized by gender and ethnicity?

***If you can provide the gender x ethnicity breakdown***, then enter those numbers in the appropriate rows/columns. Do not total the rows or columns. Use the Not Available column or row for individuals whose category is not known.

***If you cannot provide the gender x ethnicity breakdown***, but can provide gender totals then enter the gender numbers in row j (Residency/Ethnicity Not Available) and leave blank the remainder of the table. Do not provide the ethnicity breakdown separately. If you cannot provide the gender breakdown but can provide the total number of students, enter that number in the Not Available / Not Available cell.

Note that CS, CE, and I are entered in separate questions. All three grids will be displayed; leave blank ones that do not apply to your academic unit.

<b>1. Bachelors Enrollment – CS ONLY</b>	<b>Male</b>	<b>Female</b>	<b>Non-binary / Other</b>	<b>Not Available</b>
a. Resident, American Indian or Alaska Native, not Hispanic				
b. Resident, Asian, not Hispanic				
c. Resident, Black or African-American, not Hispanic				
d. Resident, Native Hawaiian or other Pacific Islander, not Hispanic				
e. Resident White, Non-Hispanic				
f. Resident, more than one race, not Hispanic				
g. Resident, Hispanic or Latino, any race				
h. Resident, Race/Ethnicity Unknown				
i. Nonresident Alien				
j. Not Available				

<b>2. Bachelors Enrollment – CE ONLY</b>	<b>Male</b>	<b>Female</b>	<b>Non-binary / Other</b>	<b>Not Available</b>
a. Resident, American Indian or Alaska Native, not Hispanic				
b. Resident, Asian, not Hispanic				
c. Resident, Black or African-American, not Hispanic				
d. Resident, Native Hawaiian or other Pacific Islander, not Hispanic				
e. Resident White, Non-Hispanic				
f. Resident, more than one race, not Hispanic				
g. Resident, Hispanic or Latino, any race				
h. Resident, Race/Ethnicity Unknown				
i. Nonresident Alien				
j. Not Available				

<b>3. Bachelors Enrollment – INFO ONLY</b>	<b>Male</b>	<b>Female</b>	<b>Non-binary / Other</b>	<b>Not Available</b>
a. Resident, American Indian or Alaska Native, not Hispanic				
b. Resident, Asian, not Hispanic				
c. Resident, Black or African-American, not Hispanic				
d. Resident, Native Hawaiian or other Pacific Islander, not Hispanic				
e. Resident White, Non-Hispanic				
f. Resident, more than one race, not Hispanic				
g. Resident, Hispanic or Latino, any race				
h. Resident, Race/Ethnicity Unknown				
i. Nonresident Alien				
j. Not Available				

## Section N. Other Bachelors Questions

1. How many bachelors premajors were enrolled on average last year (July 1, 2021 – June 30, 2022)?

CS \_\_\_\_\_ CE \_\_\_\_\_ I \_\_\_\_\_

2. How many newly admitted bachelors students are enrolled **this fall**, i.e. fall 2022? Include both full- and part-time students. Consider students who have transferred from other majors/premajors or universities and newly arriving freshman majors/premajors.

Newly admitted bachelors students	CS	CE	I
Majors			
Premajors			

3. How many bachelor's degrees are expected to be awarded in the current academic year (July 1, 2022 - June 30, 2023)?

CS \_\_\_\_\_ CE \_\_\_\_\_ I \_\_\_\_\_

4. How many of your undergraduate majors received accommodations for disabilities from your institution at any time during the academic year 2021-2022? \_\_\_\_

4a. Any comments about availability of data on accommodations for undergraduate majors

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5a. How many of your undergraduate majors received Pell grants during the academic year 2021-2022? \_\_\_\_

5b. How many of your undergraduate majors were first generation college students during the academic year 2021-2022? \_\_\_\_

## Teaching Faculty Categorization

As of fall 2018 are dividing the data for what we previously called Non-Tenure-Track Teaching Faculty into two categories: Teaching Professors and Other Instructors. Faculty counted in either category should be full time at the institution, although they may be part time in your unit with a shared appointment in another department or administrative unit. Do not include people employed on a course-by-course basis and do not count visiting faculty here. To decide which category your teaching faculty fall in (because titles vary widely across institutions and our intended division is based on qualifications and expectations rather than title) consider the following characteristics:

	<b>Teaching Professors</b>	<b>Other Instructors</b>
Title	Probably includes Professor or Faculty, but may also include Lecturer	Probably includes Instructor or Lecturer
Qualifications	Highly likely to require PhD	May require PhD
Teaching Expectations	More often include upper level and graduate courses. More often supervise REU or independent studies	Less often include upper level and graduate courses.
Research Expectations	More likely to conduct disciplinary or CS Ed research, be a PI or co-PI, or fund graduate students. More likely to have research as part of performance criteria.	Less likely
Service/Governance Expectations	More likely to vote in the unit or serve on committees. More likely to have service as part of performance criteria.	Less likely
External Visibility	External visibility more likely to be part of performance criteria.	Less likely
Professional Development	More likely to have a sabbatical option	Less likely
Length of contract	May be 1 year, but more likely 3 or 5	Most likely to be 1 year, but may be more

## Section O. Faculty Positions

See instructions about Teaching Faculty categories on page 29.

### 1. Faculty Hiring.

Indicate the total number of faculty positions in your academic unit for which you did recruiting last year (July 1, 2021 - June 30, 2022) and the total number of positions filled during the year.

Faculty	Tried to Fill	Filled
Tenured or Tenure-Track		
Teaching Professors		
Other Instructors		
Researchers		
Postdoctorates		

### 2. Unfilled faculty positions.

If you had positions that remained unfilled, what were the reasons? Check all that apply.

- Did not find a person who met our hiring goals (what couldn't you find?)  
\_\_\_\_\_
- Our offer(s) were turned down
- Position is technically vacant but we are not filling for administrative reasons
- Hiring is still in progress
- Other \_\_\_\_\_

### 3. Full-time faculty no longer full-time faculty, and why.

Of those who were full-time faculty (*tenured, tenure-track, and non-tenure-track*) last year (July 1, 2021 - June 30, 2022), how many are no longer full-time faculty as of July 1, 2022, categorized by the reasons they left? (Do not include faculty on temporary leave, visiting professors who left, or postdoctorates).

Reason for Leaving	Faculty
Died	
Retired	
Took Academic Position Elsewhere	
Took Non-Academic Position	
Remained, but Changed to Part-time	
Other	
Unknown	

#### 4. FTE positions currently filled

*In the following questions, consider only faculty who are in computer science, computer engineering, and/or information, and whose positions are budgeted for the current academic year (July 1, 2022 - June 30, 2023).*

Indicate the number of full-time equivalent (FTE) positions that are **currently filled** (22-23). Then project your academic unit's faculty size over the next two years based on FTE positions. **Please do not leave columns 2 and 3 blank** — if uncertain, **estimate** the numbers or assume they will remain the same. The numbers in the later two columns should be total FTEs projected for those years, not changes from the current year.

Faculty - FTE	22-23	23-24	24-25
Tenured or Tenure-Track			
Non-Tenure-Track			
Teaching Professors			
Other Instructors			
Research Faculty			
Postdoctorates			
Other (Not Listed Above)			

If you completed the Salary part of the Taulbee Survey, then the answers you entered there for current academic year Tenured or Tenure-Track FTE, Teaching Professors, and Other Instructors will be included here.

## Section P. Tenure/Tenure-Track Faculty Numbers

**For all questions in this section:**

- Report the number of Tenure/Tenure-Track faculty in your academic unit as of fall 2022.
- If you can provide the gender x ethnicity breakdown, please enter those numbers in the appropriate rows/columns.
- If you cannot provide the gender x ethnicity breakdown, please enter gender totals in row “j. Not Available” and omit the ethnicity totals.

<b>1. Full Professors</b>	<b>Male</b>	<b>Female</b>	<b>Non-binary / Other</b>	<b>Not Available</b>
a. Resident, American Indian or Alaska Native, not Hispanic				
b. Resident, Asian, not Hispanic				
c. Resident, Black or African-American, not Hispanic				
d. Resident, Native Hawaiian or other Pacific Islander, not Hispanic				
e. Resident White, Non-Hispanic				
f. Resident, more than one race, not Hispanic				
g. Resident, Hispanic or Latino, any race				
h. Resident, Race/Ethnicity Unknown				
i. Nonresident Alien				
j. Not Available				



<b>2. Associate Professors</b>	<b>Male</b>	<b>Female</b>	<b>Non-binary / Other</b>	<b>Not Available</b>
a. Resident, American Indian or Alaska Native, not Hispanic				
b. Resident, Asian, not Hispanic				
c. Resident, Black or African-American, not Hispanic				
d. Resident, Native Hawaiian or other Pacific Islander, not Hispanic				
e. Resident White, Non-Hispanic				
f. Resident, more than one race, not Hispanic				
g. Resident, Hispanic or Latino, any race				
h. Resident, Race/Ethnicity Unknown				
i. Nonresident Alien				
j. Not Available				

<b>3. Assistant Professors</b>	<b>Male</b>	<b>Female</b>	<b>Non-binary / Other</b>	<b>Not Available</b>
a. Resident, American Indian or Alaska Native, not Hispanic				
b. Resident, Asian, not Hispanic				
c. Resident, Black or African-American, not Hispanic				
d. Resident, Native Hawaiian or other Pacific Islander, not Hispanic				
e. Resident White, Non-Hispanic				
f. Resident, more than one race, not Hispanic				
g. Resident, Hispanic or Latino, any race				
h. Resident, Race/Ethnicity Unknown				
i. Nonresident Alien				
j. Not Available				

## Section Q. Non-Tenure-Track Faculty Numbers

See instructions about Teaching Faculty categories on page 29.

**For all questions in this section:**

- Report the numbers as of fall 2022.
- If you can provide the gender x ethnicity breakdown, please enter those numbers in the appropriate rows/columns.
- If you cannot provide the gender x ethnicity breakdown, please enter gender totals in row “j. Not Available” and omit the ethnicity totals.

<b>1. Teaching Professors</b>	<b>Male</b>	<b>Female</b>	<b>Non-binary / Other</b>	<b>Not Available</b>
a. Resident, American Indian or Alaska Native, not Hispanic				
b. Resident, Asian, not Hispanic				
c. Resident, Black or African-American, not Hispanic				
d. Resident, Native Hawaiian or other Pacific Islander, not Hispanic				
e. Resident White, Non-Hispanic				
f. Resident, more than one race, not Hispanic				
g. Resident, Hispanic or Latino, any race				
h. Resident, Race/Ethnicity Unknown				
i. Nonresident Alien				
j. Not Available				

<b>2. Other Instructors</b>	<b>Male</b>	<b>Female</b>	<b>Non-binary / Other</b>	<b>Not Available</b>
a. Resident, American Indian or Alaska Native, not Hispanic				
b. Resident, Asian, not Hispanic				
c. Resident, Black or African-American, not Hispanic				
d. Resident, Native Hawaiian or other Pacific Islander, not Hispanic				
e. Resident White, Non-Hispanic				
f. Resident, more than one race, not Hispanic				
g. Resident, Hispanic or Latino, any race				
h. Resident, Race/Ethnicity Unknown				
i. Nonresident Alien				
j. Not Available				

<b>3. Research Faculty</b>	<b>Male</b>	<b>Female</b>	<b>Non-binary / Other</b>	<b>Not Available</b>
a. Resident, American Indian or Alaska Native, not Hispanic				
b. Resident, Asian, not Hispanic				
c. Resident, Black or African-American, not Hispanic				
d. Resident, Native Hawaiian or other Pacific Islander, not Hispanic				
e. Resident White, Non-Hispanic				
f. Resident, more than one race, not Hispanic				
g. Resident, Hispanic or Latino, any race				
h. Resident, Race/Ethnicity Unknown				
i. Nonresident Alien				
j. Not Available				

<b>4. Postdoctorates</b>	<b>Male</b>	<b>Female</b>	<b>Non-binary / Other</b>	<b>Not Available</b>
a. Resident, American Indian or Alaska Native, not Hispanic				
b. Resident, Asian, not Hispanic				
c. Resident, Black or African-American, not Hispanic				
d. Resident, Native Hawaiian or other Pacific Islander, not Hispanic				
e. Resident White, Non-Hispanic				
f. Resident, more than one race, not Hispanic				
g. Resident, Hispanic or Latino, any race				
h. Resident, Race/Ethnicity Unknown				
i. Nonresident Alien				
j. Not Available				

## Section R. Newly Appointed Faculty.

See instructions about Teaching Faculty categories on page 29.

How many full-time faculty are newly appointed to work during the period July 1, 2022 – June 30, 2023, categorized by gender and ethnicity?

**Note: The total number of faculty reported by gender (question 1) should equal the total number of faculty by ethnicity (question 2).**

1. Newly Appointed Faculty By Gender	Tenure-Track			Non-Tenure-Track			
	Full	Assoc	Asst	Teach Prof	Other Instruc	Research	Postdoc
Male							
Female							
Nonbinary / Other							
Not Available							
<b>2. Newly Appointed Faculty By Ethnicity</b>							
Resident, American Indian or Alaska Native, not Hispanic							
Resident, Asian, not Hispanic							
Resident, Black or African-American, not Hispanic							
Resident, Native Hawaiian or other Pacific Islander, not Hispanic							
Resident White, Non-Hispanic							
Resident, more than one race, not Hispanic							
Resident, Hispanic or Latino, any race							
Resident, Race/Ethnicity Unknown							
Nonresident Alien							
Not Available							

3. Newly Appointed Faculty By Source	Tenure-Track			Non-Tenure-Track			
	Full	Assoc	Asst	Teach Prof	Other Instruc	Research	Postdoc
Received PhD after July 1, 2021							
Were postdocs immediately before this appointment							
Came from another academic institution							
Came from industry							
Hired without PhD (position doesn't require, or hired pre-PhD with completion expected)							

4. Newly Appointed Faculty Deferred or Fully Online	Tenure-Track			Non-Tenure-Track			
	Full	Assoc	Asst	Teach Prof	Other Instruc	Research	Postdoc
Number of new faculty deferred start to January 2023							
Number of new faculty deferred start to 2023-24 acad year							
Number of new faculty beginning employment online							

## Section S. Research Expenditures and Graduate Student Support

Canadian schools, provide figures in Canadian dollars.

Note: In some universities research contracts are run through organizations other than academic units (e.g. inter-departmental laboratories). In answering this section, please treat contracts whose principal investigators have appointments in your academic unit as if they were run through your unit.

### 1. Total Expenditures.

For the most recently completed fiscal year, what was the academic unit's total expenditure (including indirect costs or "overhead," as stated on project budgets) from external sources of support for Computer Science/Computer Engineering/Information research? For interdisciplinary projects with a CS/CE/I component, please include only that fraction of the expenditure that supported CS/CE/I research.

Total: \_\_\_\_\_

### 2. Doctoral Student Support

Provide the number of doctoral students supported as full-time students (typically with a work requirement of 20 hours per week for teaching, research assistance, or administrative work), as of fall 2022. Count these as FTEs; if you support 2 students with a work requirement of 10 hours each, then together they equal 1 20-hour student.

Doctoral Student Support	# FTEs on Institutional Funds	# FTEs on External Funds
Teaching Assistants		
Research Assistants		
Full-Support Fellows		
Graduate Assistants for Computer Systems Support		
Other		

**3. Doctoral Student Stipends. (Note: This same question was also included in the Salary section of the Taulbee. If you answered it there, your responses will be transferred automatically. If you did not complete the Salary section or did not answer the stipend question there, you can answer it here.)**

Provide the total (*not monthly*) average amount (as of fall 2022) of an **academic-year** stipend for a first-year doctoral student (amount of stipend minus any allowances for tuition, registration, and other fees, if they are included in the stipend and the student has to pay them; do not include the value of tuition waivers). Include base salary only, not signing bonuses, conference travel, or other income.

Doctoral Student Stipends	Average Stipend
Teaching Assistants	
Research Assistants	
Full-Support Fellows	
Graduate Assistants for Computer Systems Support	

**4. Doctoral Student Fees.**

What are the total academic-year fees paid by a doctoral student for the 2022-2023 academic year? \_\_\_\_\_

Following the definition used by IPEDS, these fees are the “fixed sum charged to students for items not covered by tuition and required of such a large proportion of all students that the student who does not pay the charge is an exception.” This amount is likely to be set by your institution and not by your department.



## 5. Master's Student Support

Provide the number of master's students supported as full-time students (typically with a work requirement of 20 hours per week for teaching, research assistance, or administrative work), as of fall 2022. Count these as FTEs; if you support 2 students with a work requirement of 10 hours each, then together they equal 1 20-hour student.

Master's Student Support	# FTEs on Institutional Funds	# FTEs on External Funds
Teaching Assistants		
Research Assistants		
Full-Support Fellows		
Graduate Assistants for Computer Systems Support		
Other		

## 6. Master's Student Eligibility for Assistantships

At some institutions, students in some master's programs are not eligible for assistantships. Is this true of your institution?

Master's assistantship eligibility

All master's students are eligible for assistantships

No master's students are eligible for assistantships

Students in some master's programs but not others are eligible for assistantships

Other, please specify \_\_\_\_\_

## (Section T. Department Profiles)

Asked in 2021; will be asked next in 2024.

## Section T. Enrollment in Representative Courses

This section follows up on data collected in fall 2015 as part of the CRA Enrollments survey. It will help us track enrollment patterns at the course level.

First, identify a representative course in each of the categories shown in the question. If your unit responded to this section last year, the courses you reported on then will be displayed online and can be copied to the current year fields by the click of a copy icon. If you did not previously enter this data, then enter the representative course ID and Name.

**1. What are the current IDs and names of these four courses? Have you changed the course selection in a way that makes this year’s data incompatible with previous years? (For example, renaming or renumbering a course with substantively similar objectives does not make it incompatible. Choosing a completely different course for a level does make the data incompatible.)**

	Course ID	Course Name	Check if changed
a. Intro-level course for (mainly) non-majors			
b. Intro-level course for (mainly) CS majors			
c. Mid/Next-level course			
d. Upper-level course			

**2. In the most recent offering (e.g. Spring 2022 or Fall 2022), how many students are/were enrolled in these four courses? Please provide the demographic numbers as well, if available.**

	Total Number of students enrolled	Number of CS majors enrolled	Number of females enrolled (domestic and international)	Number of under-represented minorities enrolled (domestic)	Number of international students
a. Intro-level course for (mainly) non-majors					
b. Intro-level course for (mainly) CS majors					
c. Mid/Next-level course					
d. Upper-level course					