A Novel Approach to Relating Resource Expenditures to Academic Units

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NCSU Libraries
Charleston Conference
November 2009







The Questions

 How do the NCSU Libraries' expenditures on resources support the research and teaching needs of diverse colleges and departments at NCSU?

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- How do the NCSU Libraries' expenditures on resources support the research and teaching needs of diverse colleges and departments at NCSU?
- What data exist that might help us understand how our resource expenditures look in terms of the departments we serve?

NCSU Context

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- ~31,000 students
- ~8,000 faculty
- \$8.5 \$10 million collection budget
- 4 million volumes
- 1 main library, 4 branch libraries
- Engineering, Agriculture, Science, Technology, Veterinary Medicine

Outline

- Data & Sources
- Structuring the Data
- Data Storage
- Exploring the Data
- Other Considerations
- Future Plans

Data & Sources

Library Expenditures

Material Type:

Monographs (Quantity & Cost)

- Monographs (Quantity & Cost)
 - Firm Order

- Monographs (Quantity & Cost)
 - Firm Order
 - Approval Plan

- Monographs
 (Quantity & Cost)
 - Firm Order
 - Approval Plan
- Serials (Cost)

- Monographs (Quantity & Cost)
 - Firm Order
 - Approval Plan
- Serials (Cost)
- Databases (Cost)

Material Type: Subject:

- Monographs (Quantity & Cost)
 - Firm Order
 - Approval Plan
- Serials (Cost)
- Databases (Cost)

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Subject:

Subject Identifier

Subject Identifiers

- Four Letters
- ~129 Codes
- Broad & Narrow
- NCSU Specific
- Assigned at purchase

Subject Identifiers

Examples:

- ENTO Entomology
- GTEC General Technology
- NATM Atmospheric Sciences NRL*
- TDES Textiles Design

Data Sources

- Our ILS (Sirsi)
- Book Vendor (YBP)

Faculty Headcount

- Faculty Headcount
- Enrolled Student Headcount

- Faculty Headcount
- Enrolled Student Headcount
 - Graduate Students

- Faculty Headcount
- Enrolled Student Headcount
 - Graduate Students
 - Undergraduate Students

- Faculty Headcount
- Enrolled Student Headcount
 - Graduate Students
 - Undergraduate Students
- PhD Degrees Awarded

- Faculty Headcount
- Enrolled Student Headcount
 - Graduate Students
 - Undergraduate Students
- PhD Degrees Awarded
- Research Grant Income

Data Sources

- NCSU Office of University Planning and Analysis
 - Requested Spreadsheet of Data
- NCSU's Sponsored Programs & Regulatory Compliance Services
 - Scraped HTML from web query

Structuring the Data

Method

 To connect library expenditures and data about departments we developed a mapping between subject identifiers and departments.

Why Do This?

- We've never had a good way of looking at data about expenditures and data about departments next to each other.
- Make connections between library expenditures and department demographics.

Challenges

 It's a judgment call whether a particular subject applies to a department.

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There is no one correct way to do this.

We did our best.

Rules We Followed

 A Subject Identifier can be applied to more than one department.

Rules We Followed

- A Subject Identifier can be applied to more than one department.
- The expenditure amount associated with the Subject Identifier applies to departments in full (no weighting).

Rules We Followed

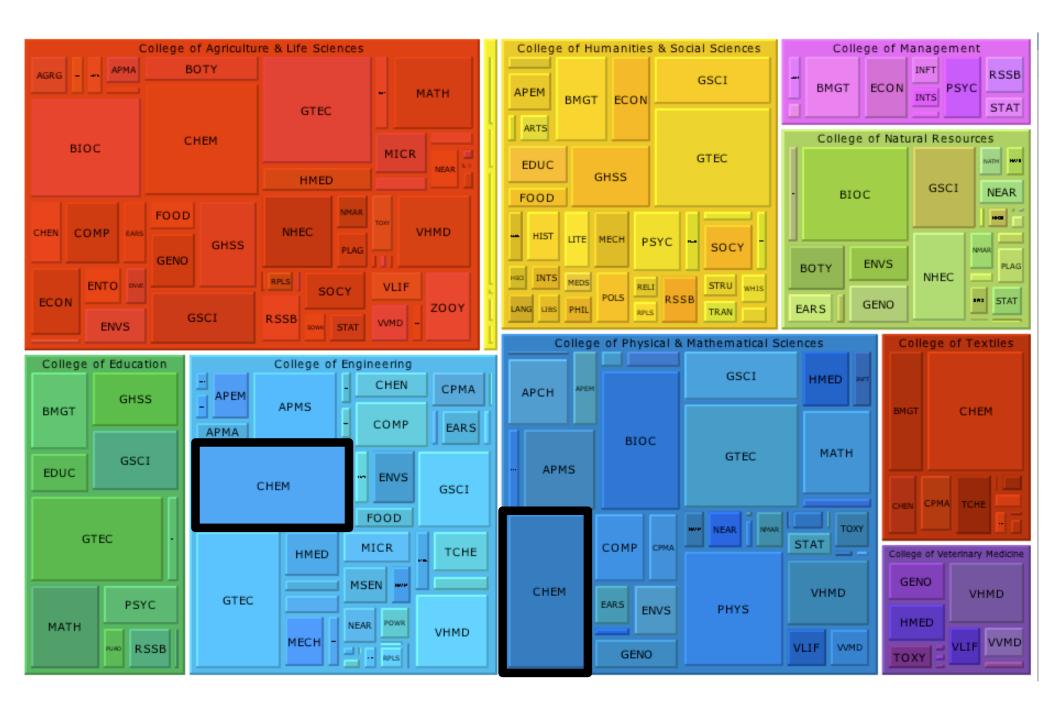
- A Subject Identifier can be applied to more than one department.
- The expenditure amount associated with the Subject Identifier applies to departments in full (no weighting).
- Tried to find a balanced approach not too liberal and not too conservative.

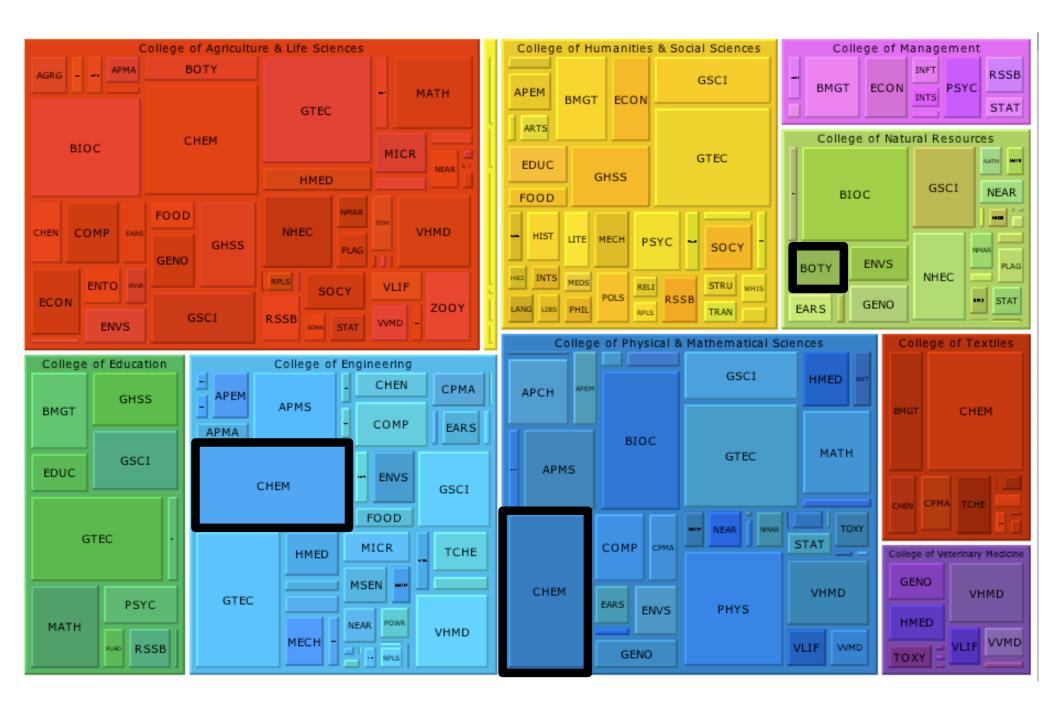
An Example Mapping

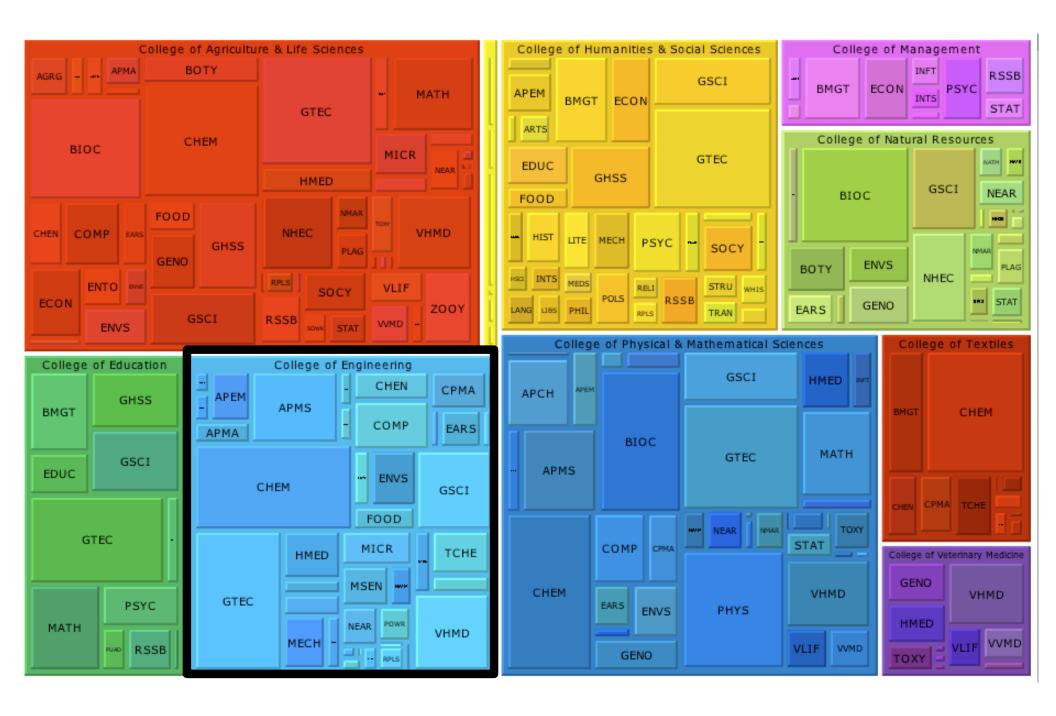
- Agricultural & Resource Economics
 - NATR Natural Resources
 - ENVS Environmental Sciences
 - GSCI General Science
 - AREC Agricultural & Resource Economics
 - AGRG Agriculture (General)
 - ECON Economics
 - RPLS Reference Physical and Life Sciences

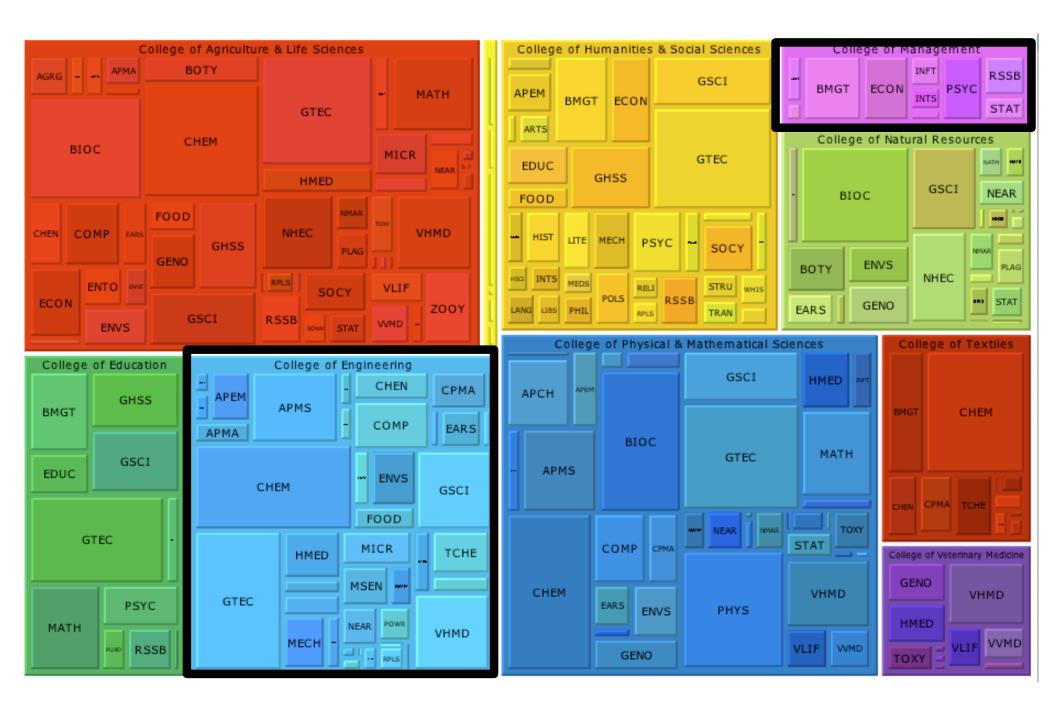










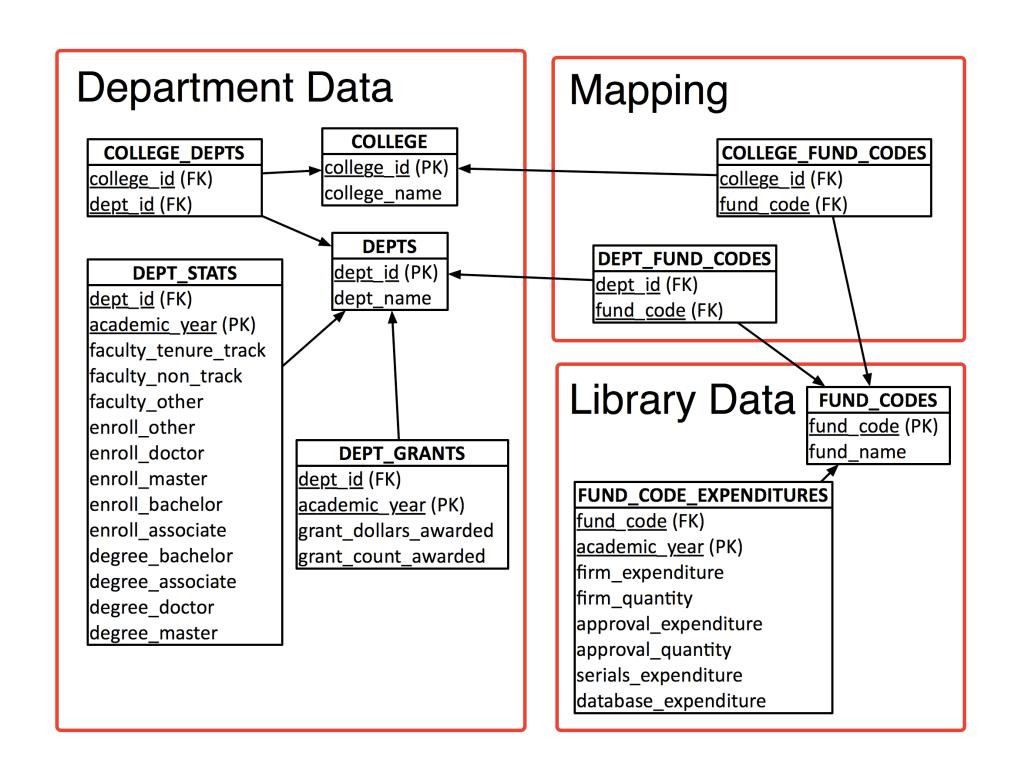


Storing the Data



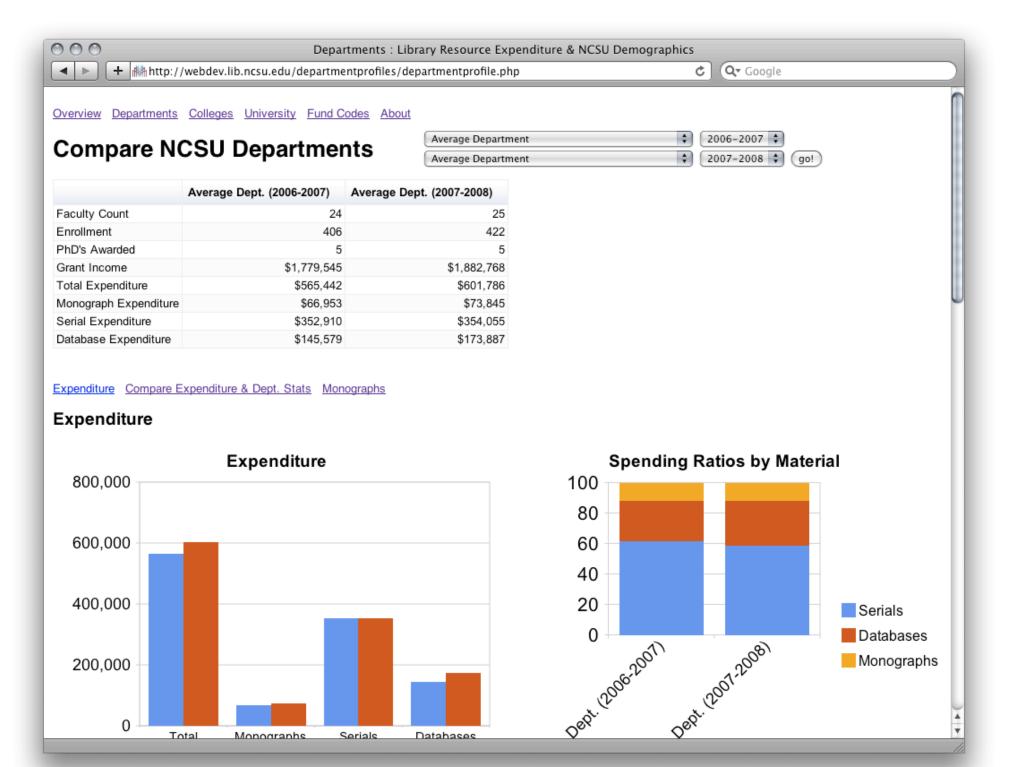
Why a Database?

- Helps enforce data model and data integrity
- Only have to add new data not rebuild relationships and other data
- Flexible output options: Web, custom queries, canned queries



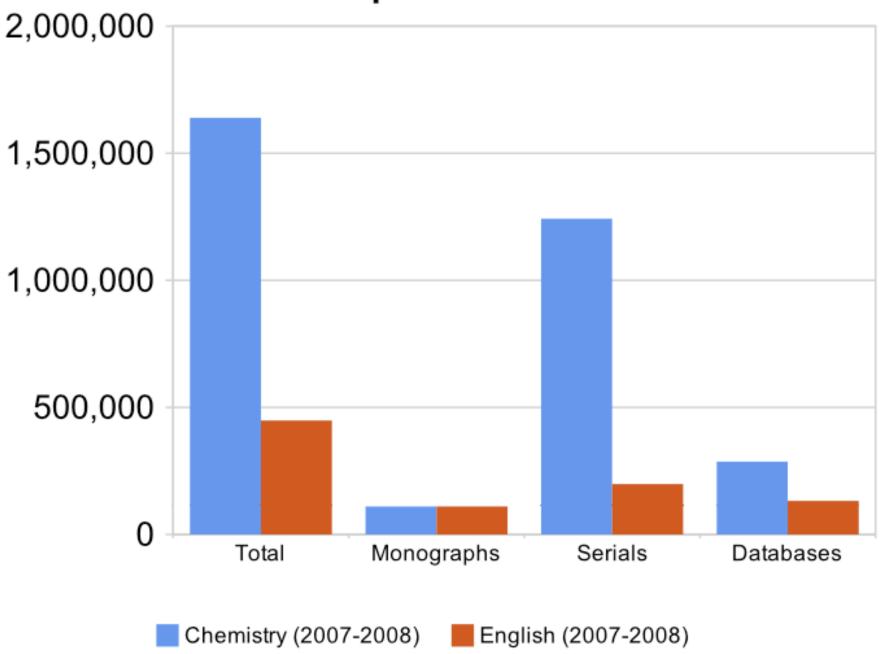
Exploring the Data

Data Portal

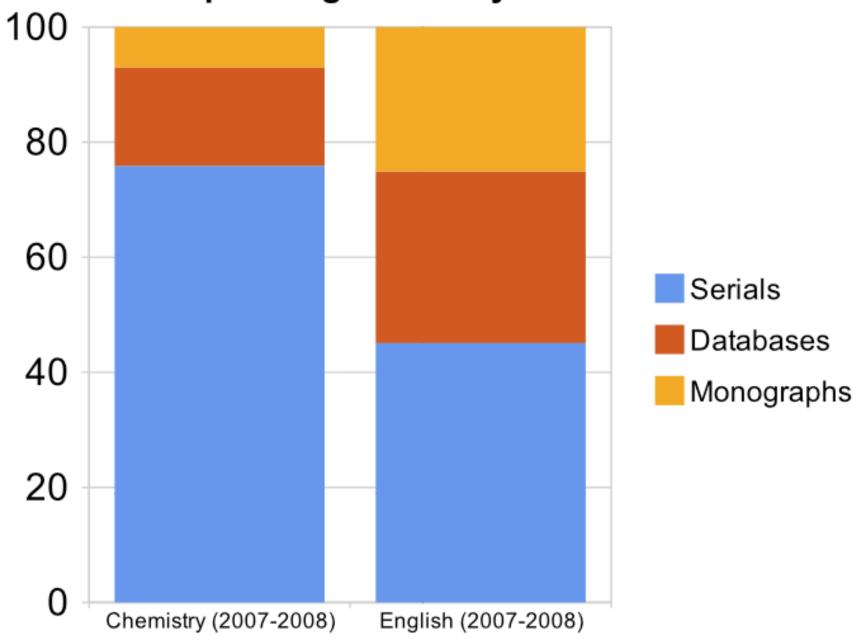


Chemistry & English

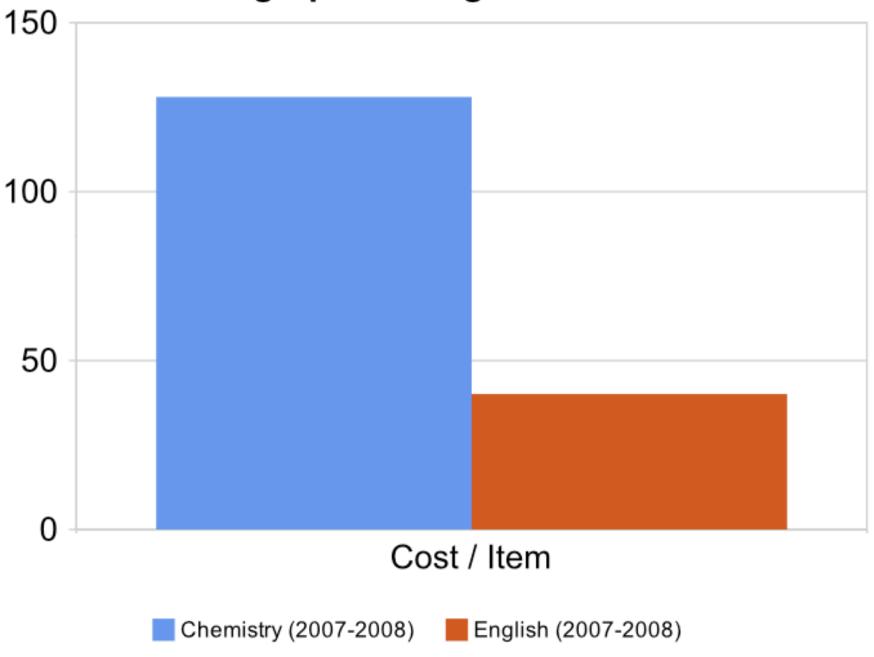
Expenditure



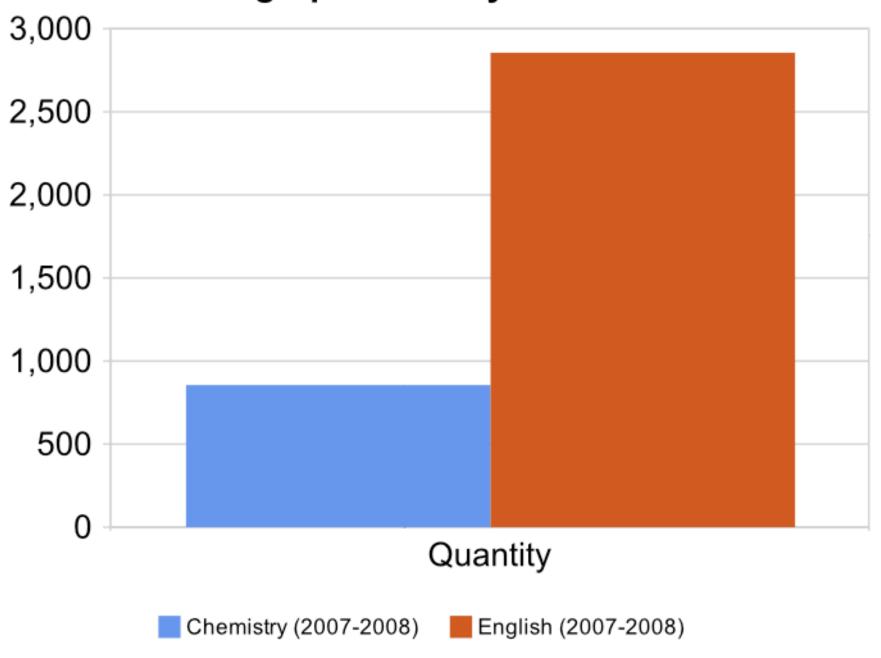
Spending Ratios by Material



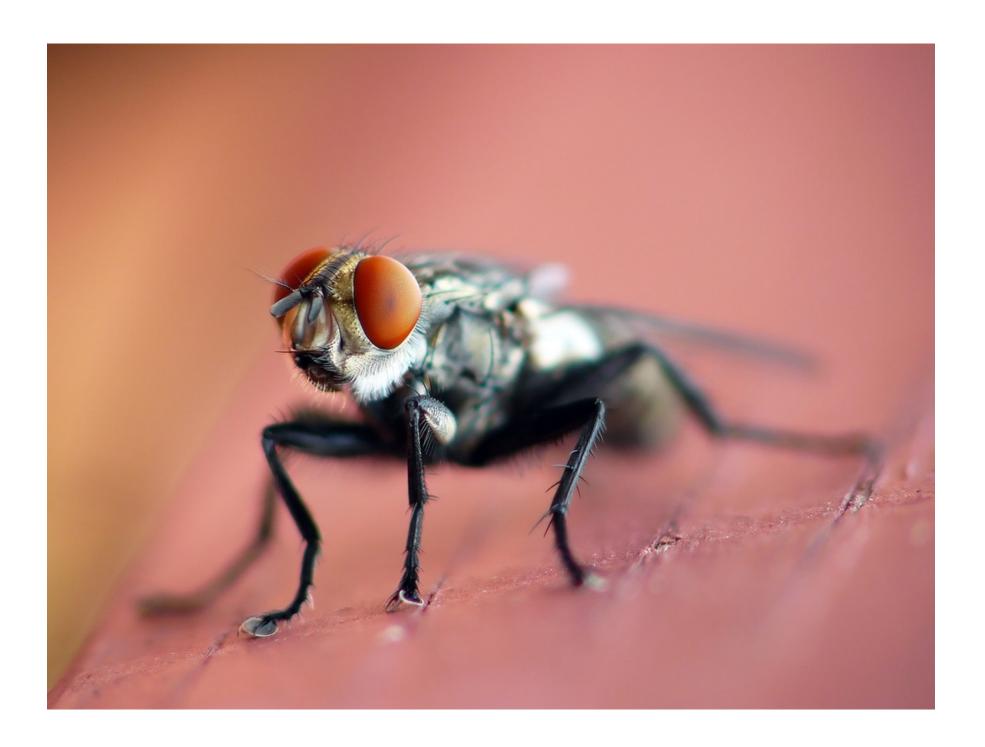
Monograph Average Cost / Item



Monograph Quantity Purchased

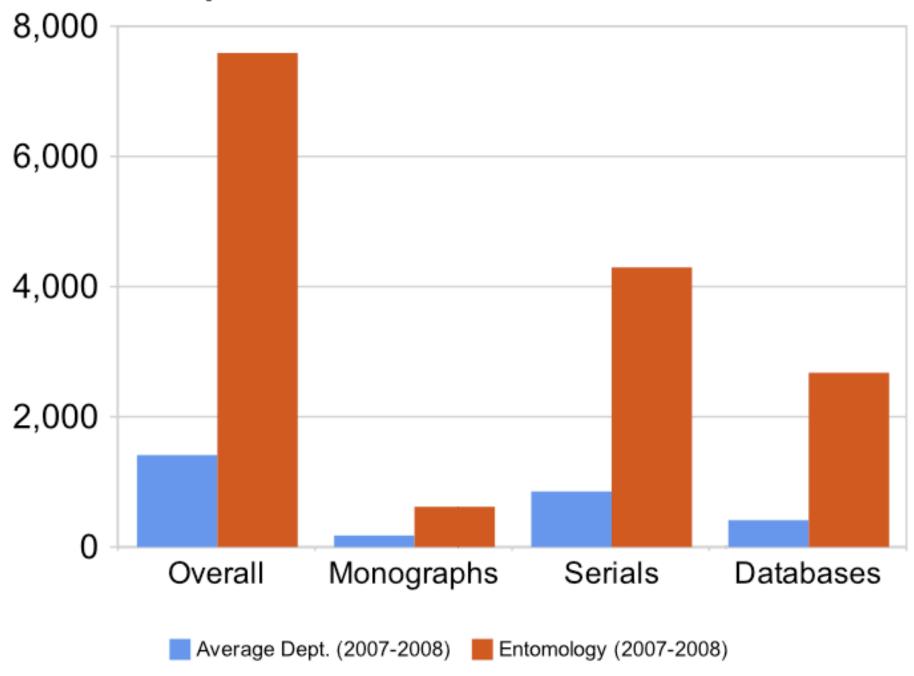


Entomology

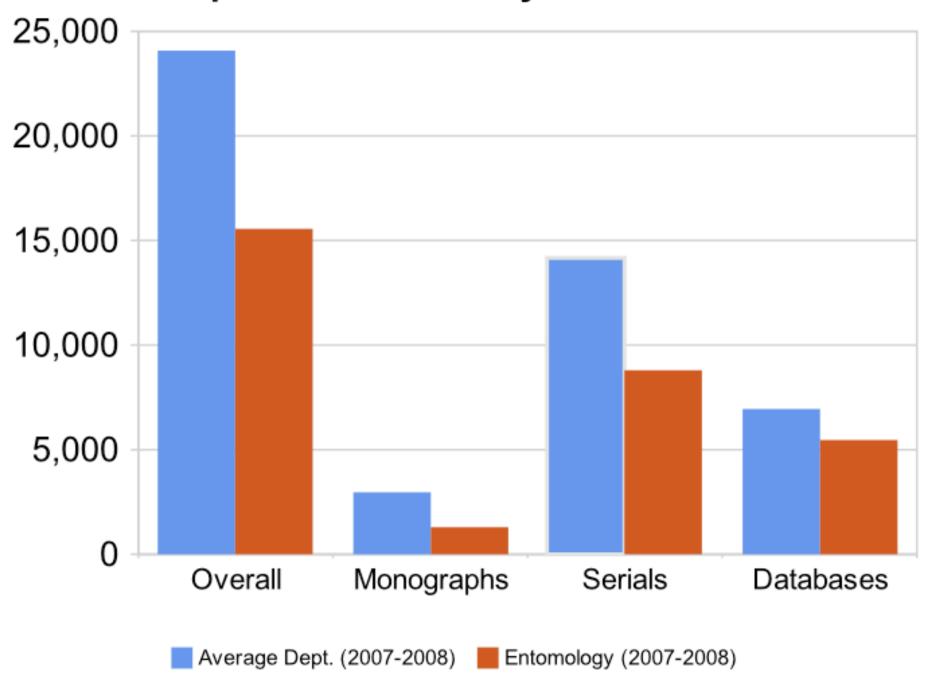


	Average Dept. (2007-2008)	Entomology (2007-2008)
Faculty Count	25	23
Enrollment	422	47
PhD's Awarded	5	4
Grant Income	\$1,882,768	\$2,680,159
Total Expenditure	\$601,786	\$357,134
Monograph Expenditure	\$73,845	\$29,008
Serial Expenditure	\$354,055	\$202,128
Database Expenditure	\$173,887	\$125,999

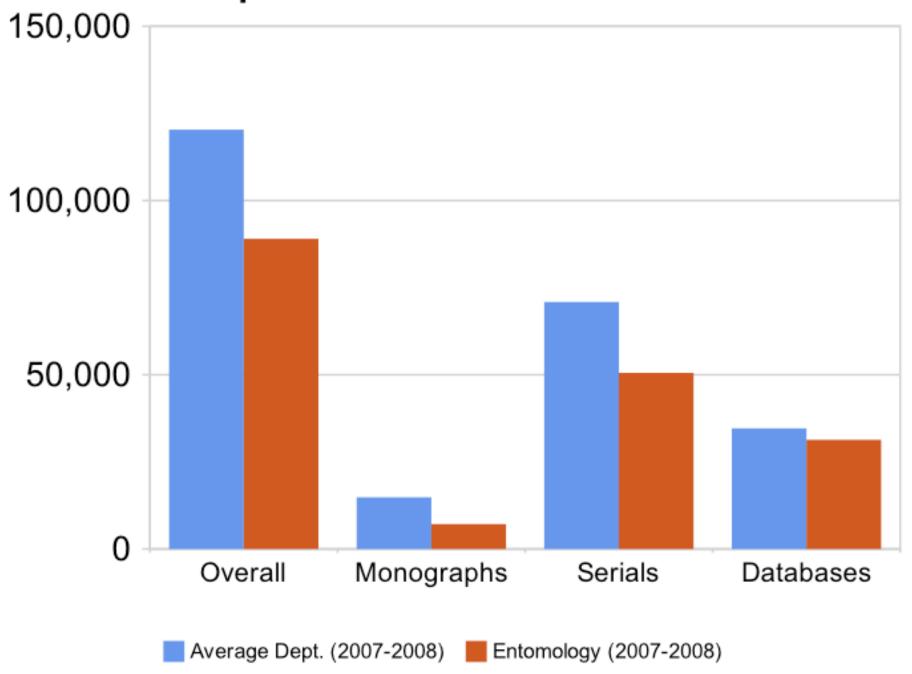
Expenditure / Student Headcount



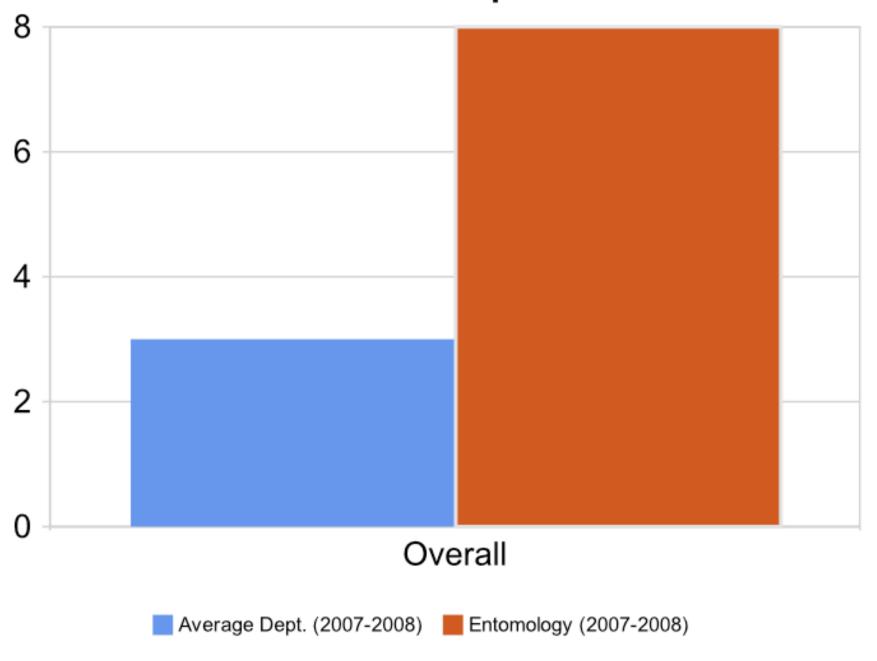
Expenditure / Faculty Headcount



Expenditure / PhDs Awarded

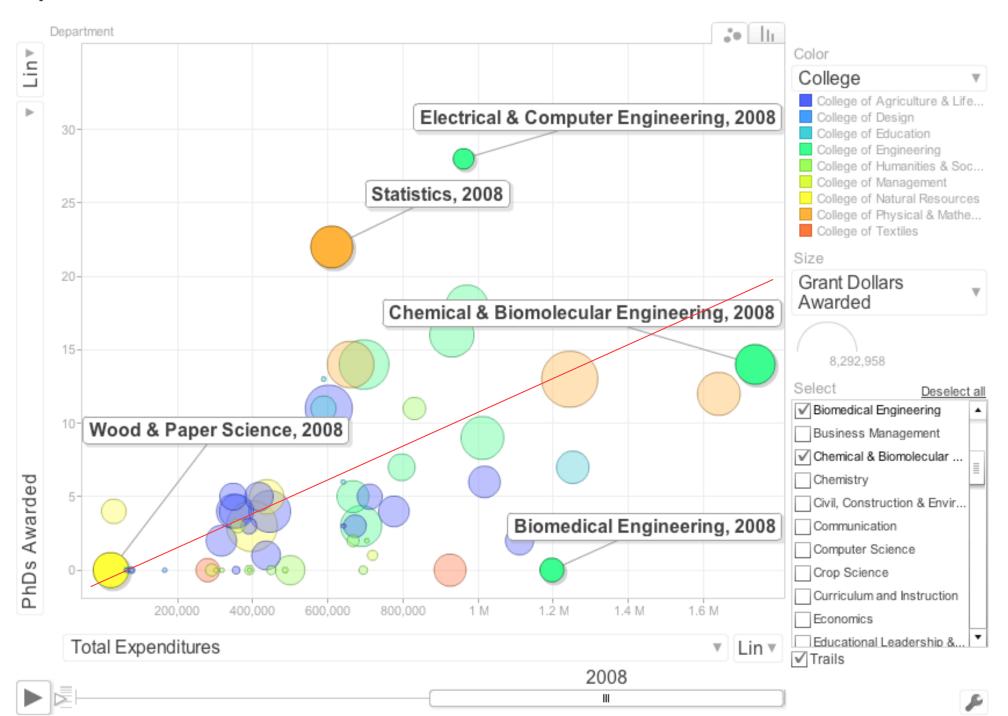


Grant Income / Expenditure

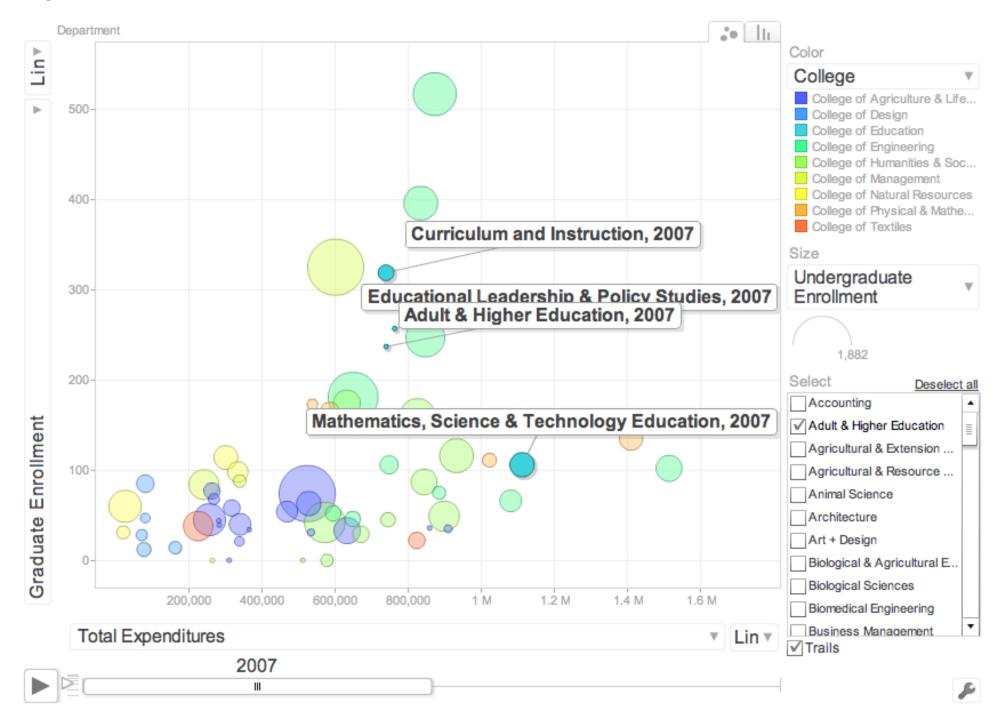


Big Picture View

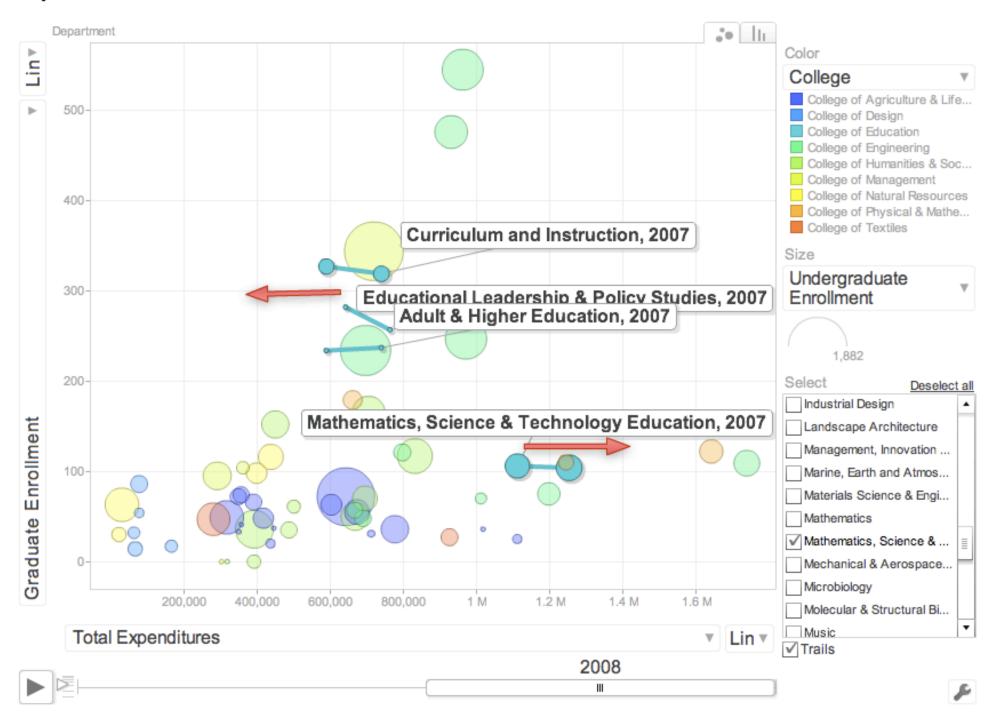
Department Motion Chart



Department Motion Chart



Department Motion Chart



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dept name	total exp		grant dollar		grad enro		phd awar		undergr enroll
Chemical & Biomolecular Engineering	\$1,737,986.56	Physics	\$7,313,135.00	Electrical & Computer Engineering	545	Electrical & Computer Engineering	28	Business Management	1882
Chemistry	\$1,640,984.66	Marine, Earth and Atmospheric Sciences	\$5,919,939.00	Computer Science	476	Statistics	22	Biological Sciences	1823
Mathematics, Science & Technology Education	\$1,252,500.57	Mechanical & Aerospace Engineering	\$5,692,399.00	Business Management	344	Civil, Construction & Environmental Engineering	18	Mechanical & Aerospace Engineering	1377
Physics	\$1,244,153.67	Crop Science	\$5,136,074.00	Curriculum and Instruction	327	Computer Science	16	Civil, Construction & Environmental Engineering	931
Biomedical Engineering	\$1,196,881.42	Mathematics	\$5,043,085.00	Educational Leadership & Policy Studies	282	Chemical & Biomolecular Engineering	14	Electrical & Computer Engineering	921
Soil Science	\$1,110,864.75	Computer Science	\$4,495,080.00	Civil, Construction & Environmental Engineering	247	Mathematics	14	Communication	781
Genetics	\$1,017,435.43	Chemistry	\$4,259,454.00	Adult & Higher Education	234	Mechanical & Aerospace Engineering	14	Psychology	664
Materials Science & Engineering	\$1,011,691.77	Materials Science & Engineering	\$4,244,942.00	Mechanical & Aerospace Engineering	234	Adult & Higher Education	13	Animal Science	611
Civil, Construction & Environmental Engineering	\$970,604.00	Statistics	\$4,106,872.00	Mathematics	179	Physics	13	Parks, Recreation & Tourism Management	609
Electrical & Computer Engineering	\$961,775.84	Plant Pathology	\$4,049,076.00	Public & International Affairs	165	Chemistry	12	Public & International Affairs	589
Computer Science	\$930,596.84	Civil, Construction & Environmental Engineering	\$4,026,122.00	Statistics	154	Crop Science	11	Computer Science	586
Textile Engineering, Chemistry & Science	\$925,846.53	Biological & Agricultural Engineering	\$3,871,361.00	English	152	Curriculum and Instruction	11	Textile & Apparel Technology & Management	585
Psychology	\$830,986.35	Chemical & Biomolecular Engineering	\$3,664,105.00	Chemistry	122	Psychology	11	Accounting	429
Industrial & Systems Engineering	\$797,071.09	Wood & Paper Science	\$2,887,068.00	Industrial & Systems Engineering	121	Materials Science & Engineering	9	Sociology and Anthropology HASS	421
Molecular & Structural Biochemistry	\$776,498.02	Environmental & Molecular Toxicology	\$2,774,027.00	Psychology	117	Industrial & Systems Engineering	7	Molecular & Structural Biochemistry	413
Business Management	\$719,338.80	Forestry & Environmental Resources	\$2,740,953.00	Forestry & Environmental Resources	116	Mathematics, Science & Technology Education	7	English	399
Plant Biology	\$711,881.45	Entomology	\$2,690,159.00	Physics	110	Educational Leadership & Policy Studies	6	Mathematics, Science & Technology Education	367
Public & International Affairs	\$704,611.15	Mathematics, Science & Technology Education	\$2,450,497.00	Chemical & Biomolecular Engineering	109	Genetics	6	Chemical & Biomolecular Engineering	363
Mechanical & Aerospace Engineering	\$696,881.92	Textile Engineering, Chemistry & Science	\$2,396,561.00	Economics	104	Food, Bioprocessing, and Nutrition Sciences	5	Forestry & Environmental Resources	345
History	\$694,755.39	Nuclear Engineering	\$2,372,044.00	Mathematics, Science & Technology Education	104	Forestry & Environmental Resources	5	Agricultural & Resource Economics	337
Biological & Agricultural Engineering	\$689,491.48	Genetics	\$2,322,456.00	Marine, Earth and Atmospheric Sciences	98	Horticultural Science	5	History	335
Agricultural & Resource Economics	\$672.910.01	Animal Science	\$2.187.457.00	Accounting	95	Nuclear Engineering	5	Chemistry	298
Sociology and Anthropology HASS	\$667.831.52	Molecular & Structural Biochemistry	\$2,183,554.00	Architecture	86	Plant Biology	5	Biomedical Engineering	275
Nuclear Engineering	\$666,947.92	Social Work	\$1,999,204.00	Biomedical Engineering	75	Entomology	4	Crop Science	240
Mathematics	\$661,221,42	Poultry Science	\$1,918,654.00	Agricultural & Extension Education	74	Environmental & Molecular Toxicology	4	Marine, Earth and Atmospheric Sciences	228
Biological Sciences	\$642,477.52	Horticultural Science	\$1,905,842.00	Biological Sciences	72	Molecular & Structural Biochemistry	4	Horticultural Science	225
Educational Leadership & Policy Studies	\$641,662.23	Soil Science	\$1,845,196.00	Food, Bioprocessing, and Nutrition Sciences	72	Parks, Recreation & Tourism Management	4	Mathematics	194
Statistics	\$610,961,12	Food, Bioprocessing, and Nutrition Sciences	\$1,709,102.00	History	72	Plant Pathology	4	Industrial & Systems Engineering	160
Crop Science	\$603,002.07	Industrial & Systems Engineering	\$1,677,342.00	Materials Science & Engineering	70	Agricultural & Resource Economics	3	Architecture	160
Adult & Higher Education					66		3		159
Adult & Higher Education Curriculum and Instruction	\$588,963.11 \$588,963.11	Curriculum and Instruction	\$1,484,986.00	Microbiology Crop Science	63	Biological & Agricultural Engineering	3	Textile Engineering, Chemistry & Science	151
		Plant Biology				Biological Sciences		Biological & Agricultural Engineering	147
Social Work	\$500,363.31	Parks, Recreation & Tourism Management	\$1,402,930.00	Parks, Recreation & Tourism Management	63	Economics	3	Foreign Languages & Literatures	
Foreign Languages & Literatures	\$487,011.00	Biomedical Engineering	\$1,321,108.00	Social Work	61 57	Marine, Earth and Atmospheric Sciences	3	Microbiology	146
English	\$449,919.58	Textile & Apparel Technology & Management	\$1,276,257.00	Nuclear Engineering		Microbiology	3	Food, Bioprocessing, and Nutrition Sciences	145
Plant Pathology	\$445,601.87	Agricultural & Resource Economics	\$1,193,628.00	Agricultural & Resource Economics	55	Animal Science	2	Agricultural & Extension Education	144
Forestry & Environmental Resources	\$437,525.40	Psychology	\$1,179,874.00	Landscape Architecture	54	Public & International Affairs	2	Nuclear Engineering	136
Poultry Science	\$436,422.59	Electrical & Computer Engineering	\$996,665.00	Sociology and Anthropology HASS	50	Sociology and Anthropology HASS	2	Curriculum and Instruction	131
Horticultural Science	\$417,119.01	Microbiology	\$572,763.00	Animal Science	49	Soil Science	2	Physics	127
Marine, Earth and Atmospheric Sciences	\$398,910.92	Economics	\$425,135.00	Biological & Agricultural Engineering	48	Business Management	1	Graphic Design	113
Communication	\$392,295.60	Accounting	\$345,980.00	Horticultural Science	48	Poultry Science	1	Wood & Paper Science	112
Philosophy & Religion	\$391,663.95	Sociology and Anthropology HASS	\$329,497.00	Textile & Apparel Technology & Management	47	Accounting	0	Philosophy & Religion	99
Microbiology	\$390,475.69	Business Management	\$243,188.00	Entomology	41	Agricultural & Extension Education	0	Social Work	94
Economics	\$361,325.15	Philosophy & Religion	\$198,182.00	Plant Pathology	37	Architecture	0	Economics	86
Entomology	\$357,134.40	English	\$192,375.00	Communication	36	Art + Design	0	Art + Design	83
Agricultural & Extension Education	\$356,283.45	History	\$171,055.00	Genetics	36	Biomedical Engineering	0	Industrial Design	77
Environmental & Molecular Toxicology	\$350,277.30	Agricultural & Extension Education	\$139,237.00	Molecular & Structural Biochemistry	36	Communication	0	Materials Science & Engineering	69
Food, Bioprocessing, and Nutrition Sciences	\$348,700.09	Architecture	\$105,000.00	Foreign Languages & Literatures	35	English	0	Statistics	61
Music	\$318,254.09	Foreign Languages & Literatures	\$75,000.00	Environmental & Molecular Toxicology	33	Foreign Languages & Literatures	0	Landscape Architecture	51
Animal Science	\$317,254.62	Management, Innovation & Entrepreneurship	\$53,000.00	Industrial Design	32	Graphic Design	0	Poultry Science	47
Management, Innovation & Entrepreneurship	\$302,930.49	Adult & Higher Education	\$39,781.00	Plant Biology	31	History	0	Soil Science	46
Accounting	\$291,298.42	Art + Design	\$0.00	Wood & Paper Science	30	Industrial Design	0	Plant Biology	29
Textile & Apparel Technology & Management	\$280,801.17	Biological Sciences	\$0.00	Textile Engineering, Chemistry & Science	27	Landscape Architecture	0	Entomology	6
Art + Design	\$166,179.89	Communication	\$0.00	Soil Science	25	Management, Innovation & Entrepreneurship	0	Adult & Higher Education	0
Architecture	\$77,830.12	Educational Leadership & Policy Studies	\$0.00	Poultry Science	20	Music	0	Educational Leadership & Policy Studies	0
Landscape Architecture	\$77,830.12	Graphic Design	\$0.00	Art + Design	17	Philosophy & Religion	0	Genetics	0
Graphic Design	\$67,096.83	Industrial Design	\$0.00	Graphic Design	14	Social Work	0	Plant Pathology	0
Industrial Design	\$63,426.39	Landscape Architecture	\$0.00	Management, Innovation & Entrepreneurship	0	Textile & Apparel Technology & Management	0	Environmental & Molecular Toxicology	0
Parks, Recreation & Tourism Management	\$30,899.33	Music Music	\$0.00	Music Music	0	Textile Engineering, Chemistry & Science	0	Management, Innovation & Entrepreneurship	0
Wood & Paper Science	\$22,880.22	Public & International Affairs	90.00	Philosophy & Religion	0	Wood & Paper Science	0	Music	0
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dept name	total exp)		grant dollars		grad enro	II	phd awarded		undergr e
mical & Biomolecular Engineering	\$1,737,986.56	Physics		\$7,313,135.00	Electrical & Computer Engineering	545	Electrical & Computer Engineering	28	Business Management	1882
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						282	Chaminal & Disease desides Continuedos	16		
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Science	\$1,110,864.75	Computer Science		4-1-00/000.00	Civil, Construction & Environmental Engineering	247	Mathematics		Communication	1-01
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Electrical & Engineerin		mputer	\$96	1,775.8	ation & Tourism Management nearing Resource Economics chitecture J Anthropology HASS ce	70 66 63 61 57 55 54 50 49	Plant Pathology Agricultural & Resource Economics Biological & Agricultural Engineering Biological & Agricultural Engineering Biological Sciences Economics Marine, Earth and Atmospheric Sciences Microbiology Animal Science Public & International Attains Sociology and Anthropology HASS Soil Science	3 3 3 3 3 3 3 2 2 2 2	Architecture Textile Engineering, Chemistry & Science Biological & Agricultural Engineering Foreign Languages & Literatures Microbiology Food, Bioprocessing, and Nutrition Sciences Agricultural & Extension Education Nuclear Engineering Curriculum and Instruction Physics	160 159 151 147 146 145 144 136 131
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Chemical & Biomolecular Engineering \$1,737,986,56 Chemistry \$1,840,984,66 Mathematics, Science & Technology Education \$1,262,094,66 Mathematics, Science & Technology Education \$1,244,163,67 Physicios \$1,196,881,42 Soil Science \$1,119,881,42 Soil Science \$1,119,881,72 Canatics \$10,077,245,43 Materials Science & Engineering \$10,017,245,43 Materials Science & Engineering \$10,017,75,45 Computer Science \$200,566,84 Textle Engineering, Chemistry & Science \$205,846,53 Psychology \$309,966,36 Industrial & Systems Engineering \$797,071,09 Molecular & Structural Biochemistry \$776,488,02 Business Management \$771,93,398,80 Partil Biology \$71,1881,45 Public & International Affairs \$704,611,15 Mechanical & Aerospace Engineering \$998,755,39 Biological & Agricultural Engineering \$689,881,32 Biological & Agricultural Engineering \$689,491,48 Agricultural & Resource Economics \$672,910,01 <th>Marine, Earth and Atmospheric Sciences Mechanical & Aerospace Engineering Crop Science 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109 104</th> <th>Electrical & Computer Engineering Statistics Civil, Construction & Environmental Engineering Computer Science Chemical & Biomolecular Engineering Mathematics Mechanical & Aerospace Engineering Adult & Higher Education Physics Chemistry Crop Science Curriculum and Instruction Psychology Mathematics Science & Engineering Industrial & Systems Engineering Mathematics, Science & Technology Education Educational Leadership & Policy Studies Genetics</th> <th>28 22 18 16 14 14 13 13 13 12 11 11 11 11 9 7 7 6 6</th> <th>Business Management Biological Sciences Mechanical & Aerospace Engineering Civil, Construction & Environmental Engineering Electrical & Computer Engineering Communication Psychology Animal Science Parks, Recreation & Tourism Management Public & International Atlains Computer Science Taxille & Apparel Technology & Management Accounting Sociology and Arthropology HASS Molecular & Structural Biochemistry English</th> <th>1882 1823 1377 931 921 781 664 611 609 589 585 585 429 421</th>	Marine, Earth and Atmospheric Sciences Mechanical & Aerospace Engineering Crop Science Mathematics Computer Science	\$7,313,135.00 \$5,919,393.00 \$5,193,093.00 \$5,136,074.00 \$5,043,085.00 \$4,455,680.00 \$4,254,542.00 \$4,244,542.00 \$4,049,076.00 \$4,006,172.00 \$3,874,150.00 \$2,887,086.00 \$2,740,073.00 \$2,887,086.00 \$2,740,973.00 \$2,450,487.00 \$2,450,487.00 \$2,450,487.00 \$2,450,487.00 \$2,181,576.00 \$2,181,576.00 \$2,187,657.00 \$2,181,576.00	Electrical & Computer Engineering Computer Science Business Management Curriculum and Instruction Educational Loadership & Policy Studies Civil, Construction & Environmental Engineering Adult & Higher Education Mechanical & Aerospace Engineering Mathematics Public & International Affairs Statistics English Chemistry Industrial & Systems Engineering Psychology Forestry & Environmental Resources Physics Chemical & Biomolecular Engineering Economics Mathematics, Science & Technology Education Marine, Earth and Atmospharic Sciences	545 476 344 327 282 247 234 179 165 154 152 122 121 117 116 110 109 104	Electrical & Computer Engineering Statistics Civil, Construction & Environmental Engineering Computer Science Chemical & Biomolecular Engineering Mathematics Mechanical & Aerospace Engineering Adult & Higher Education Physics Chemistry Crop Science Curriculum and Instruction Psychology Mathematics Science & Engineering Industrial & Systems Engineering Mathematics, Science & Technology Education Educational Leadership & Policy Studies Genetics	28 22 18 16 14 14 13 13 13 12 11 11 11 11 9 7 7 6 6	Business Management Biological Sciences Mechanical & Aerospace Engineering Civil, Construction & Environmental Engineering Electrical & Computer Engineering Communication Psychology Animal Science Parks, Recreation & Tourism Management Public & International Atlains Computer Science Taxille & Apparel Technology & Management Accounting Sociology and Arthropology HASS Molecular & Structural Biochemistry English	1882 1823 1377 931 921 781 664 611 609 589 585 585 429 421
Mathematics, Science & Technology Education \$1,252,500,57 Physics \$1,244,153,67 Biomedical Engineering \$1,196,881,42 Sal Science \$1,110,884,75 Genetics \$1,100,884,75 Materials Science & Engineering \$10,174,955,43 Materials Science & Engineering \$970,064,00 Electrical & Computer Engineering \$901,775,84 Computer Science \$303,566,84 Testile Engineering, Chemistry & Science \$925,846,53 Psychology \$800,996,35 Industrial & Systems Engineering \$979,071,09 Molecular & Structural Biochemistry \$776,480,02 Business Management \$193,938,80 Plant Biology \$711,881,45 Public & International Affairs \$704,611,15 Mechanical & Agricultural Engineering \$969,891,92 History \$964,765,39 Biological & Agricultural Engineering \$969,891,82 History \$964,765,39 Biological & Agricultural Engineering \$969,891,82 Nuclear Engineering \$969,891,82 Nuclear Engineering	Mechanical & Aerospace Engineering Crop Science Mathematics Computer Science Chemistry Materials Science & Engineering Statistics Plant Pathology Civil, Construction & Environmental Engineering Stological & Agricultural Engineering Wood & Paper Science Environmental & Molecular Toxicology Forestry & Environmental Resources Enternology Mathematics, Science & Technology Education Toxicle Engineering Nuclear Engineering Science Nuclear Engineering Genetics Animal Science Molecular Engineering Genetics Animal Science Molecular Engineering Molecular Engineering Genetics Animal Science	\$5,692,999.00 \$5,143,085.00 \$5,043,085.00 \$4,259,454.00 \$4,259,454.00 \$4,259,454.00 \$4,006,192.00 \$4,006,192.00 \$3,864.105.00 \$2,887.085.00 \$2,774,027.00 \$2,887.085.00 \$2,774,027.00 \$2,887.085.00 \$2,774,027.00 \$2,987.085.00 \$2,774,027.00 \$2,987.085.00 \$2,774,027.00 \$2,987.085.00 \$2,187.457.00	Business Management Curriculum and Instruction Educational Leadership & Policy Studies Civil, Construction & Environmental Engineering Adult & Higher Education Mechanical & Aerospace Engineering Mathematics Public & International Affairs Statistics English Chemistry Industrial & Systems Engineering Peychology Forestry & Environmental Resources Physics Chemical & Biomolecular Engineering Economics Mathematics, Science & Technology Education	327 282 247 234 234 179 165 154 152 122 121 117 116 110	Civil. Construction & Environmental Engineering Computer Science Chemical & Blomolecular Engineering Mathematics Mechanical & Aerospace Engineering Adult & Higher Education Physics Chemistry Crop Science Curriculum and Instruction Psychology Materials Science & Engineering Industrial & Systems Engineering Mathematics, Science & Technology Education Educational Leadership & Policy Studies	18 16 14 14 14 13 13 12 11 11 11 11 19 7 7 7	Mechanical & Aerospace Engineering Civil, Construction & Environmental Engineering Electrical & Computer Engineering Communication Psychology Animal Science Parks, Recreation & Tourism Management Public & International Affairs Computer Science Textile & Apparel Technology & Management Accounting Sociology and Anthropology HASS Molecular & Structural Biochemistry	1377 931 921 781 964 611 909 589 586 585 429 421
Physics \$1,244,163,67 Biomadoal Engineering \$1,196,881,425 Soil Science \$1,119,881,425 Soil Science \$1,110,881,425 Soil Science \$1,101,891,775 Genetics \$1,011,891,775 Materials Science & Engineering \$907,004,00 Electrical & Computer Engineering \$907,004,00 Electrical & Computer Engineering \$907,071,09 Textile Engineering, Chemistry & Science \$925,846,53 Psychology \$930,966,36 Industrial & Systems Engineering \$797,071,09 Molecular & Structural Biochemistry \$776,486.02 Explainses Management \$719,038,80 Plant Biology \$711,881,45 Public & International Affairs \$704,611,15 Mochanical & Aerospace Engineering \$968,871,82 Biological & Agricultural Engineering \$968,971,82 Biological & Agricultural Engineering \$969,981,82 Nuclear Engineering \$969,987,92 Mahrematics \$967,931,52 Biological Sciences \$942,477,52 Educational Leadership & Policy Studies	Crop Science Mathematics Computer Science Chemistry Materials Science & Engineering Statistics Plant Pathology Civil, Construction & Environmental Engineering Biological & Agricultural Engineering Wood & Paper Science Environmental & Milecular Toxicology Forestry & Environmental Resources Enformore and & Molecular Toxicology Mathematics, Science & Technology Education Taxtile Engineering, Chemistry & Science Nuclear Engineering Genetics Animal Science Animal Science Molecular & Structural Biochemistry Social Work	\$5,196,074.00 \$5,043.085.00 \$4,455.080.00 \$4,254.942.00 \$4,106.872.00 \$4,006,122.00 \$4,006,122.00 \$3,871.361.00 \$3,864.105.00 \$2,877.080.00 \$2,774,027.00 \$2,774,027.00 \$2,450.950.00 \$2,450.97.00 \$2,386.61.00 \$2,372.044.00 \$2,187.457.00	Curriculum and Instruction Educational Leadership & Policy Studies Chiel, Construction & Environmental Engineering Adult & Higher Education Mechanical & Aerospace Engineering Mathematics Public & International Affairs Statistics English Chemistry Industrial & Systems Engineering Psychology Forestry & Environmental Resources Physics Chemical & Biomolecular Engineering Economies Mathematics, Science & Technology Education	327 282 247 234 234 179 165 154 152 122 121 117 116 110	Computer Science Chemical & Biomolecular Engineering Mathematics Mechanical & Aerospace Engineering Adult & Higher Education Physics Chemistry Crop Science Curriculum and Instruction Psychology Materials Science & Engineering Industrial & Systems Engineering Mathematics, Science & Technology Education Educational Leadership & Policy Studies	16	Civil, Construction & Environmental Engineering Electrical & Computer Engineering Communication Psychology Animal Science Parks, Recreation & Tourism Management Public & International Atlairs Computer Science Textile & Apparel Technology & Management Accounting Sociology and Anthropology HASS Molecular & Structural Biochemistry	931 921 781 964 611 609 589 586 586 585 429 421
Biomedical Engineering \$1,196,881.42 Soil Science \$1,110,862.75 Garantices \$1,017,496.75 Materials Science & Engineering \$1,011,691.77 Civil, Construction & Enricommental Engineering \$907,004.00 Bectrical & Computer Engineering \$907,004.00 Bectrical & Computer Engineering \$907,004.00 Bectrical & Computer Engineering \$900,006.84 Textile Engineering, Chemistry & Science \$925,846.53 Psychology \$900,996.25 Molecular & Structural Biochemistry \$776,498.02 Business Management \$719,038.80 Plant Biology \$711,881.45 Public & International Affairs \$704,611.15 Mechanical & Aerospace Engineering \$998,881.92 History \$994,755.39 Biological & Agricultural Engineering \$968,891.92 History \$994,755.39 Biological & Agricultural Engineering \$968,976.93 Markematics \$672,910.01 Sociology and Arithropology HASS \$967,831.52 Nuclear Engineering \$968,947.92 Markematics <td>Mathematics Computer Science Chemistry Materials Science & Engineering Statistics Plant Pathology Chic Construction & Environmental Engineering Biological & Agricultural Engineering Chemical & Blomolecular Engineering Wood & Paper Science Environmental & Midecular Toxicology Forestry & Environmental Resources Enthomology Mathematics, Science & Technology Education Textile Engineering, Chemistry & Science Nuclear Engineering Genetics Animal Science Molecular & Structural Biochemistry Social Work</td> <td>\$5,043,085.00 \$4,865.090.00 \$4,269,454.00 \$4,108,972.00 \$4,108,972.00 \$4,093,172.00 \$3,871,361.00 \$3,871,361.00 \$3,871,361.00 \$2,887,980.00 \$2,774,027.00 \$2,740,953.00 \$2,760,950.00 \$2,760,950.00 \$2,760,950.00 \$2,760,950.00 \$2,774,027.00 \$2,760,950.00 \$2,760,950.00 \$2,774,077.00 \$2,760,950.00 \$2,774,077.00 \$2,760,950.00 \$2,774,077.00 \$2,774,077.00 \$2,774,077.00 \$2,774,077.00 \$2,774,077.00 \$2,774,077.00 \$2,774,077.00 \$2,774,077.00 \$2,774,077.00 \$2,774,077.00 \$2,774,077.00 \$2,774,077.00 \$2,774,077.00 \$2,774,077.00 \$2,774,077.00</td> <td>Educational Leadership & 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and Arthropology HASS Molecular & Structural Blochemistry</td> <td>921 781 664 611 609 589 585 585 429 421</td>	Mathematics Computer Science Chemistry Materials Science & Engineering Statistics Plant Pathology Chic Construction & Environmental Engineering Biological & Agricultural Engineering Chemical & Blomolecular Engineering Wood & Paper Science Environmental & Midecular Toxicology Forestry & Environmental Resources Enthomology Mathematics, Science & Technology Education Textile Engineering, Chemistry & Science Nuclear Engineering Genetics Animal Science Molecular & Structural Biochemistry Social Work	\$5,043,085.00 \$4,865.090.00 \$4,269,454.00 \$4,108,972.00 \$4,108,972.00 \$4,093,172.00 \$3,871,361.00 \$3,871,361.00 \$3,871,361.00 \$2,887,980.00 \$2,774,027.00 \$2,740,953.00 \$2,760,950.00 \$2,760,950.00 \$2,760,950.00 \$2,760,950.00 \$2,774,027.00 \$2,760,950.00 \$2,760,950.00 \$2,774,077.00 \$2,760,950.00 \$2,774,077.00 \$2,760,950.00 \$2,774,077.00 \$2,774,077.00 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Communication Psychology Arimal Science Parks, Recreation & Tourism Management Public & International Affairs Computer Science Textile & Apparel Technology & Management Accounting Sociology and Arthropology HASS Molecular & Structural Blochemistry	921 781 664 611 609 589 585 585 429 421
Biomedical Engineering \$1,196,881.42 Soil Science \$1,110,862.75 Garantices \$1,017,496.75 Materials Science & Engineering \$1,011,691.77 Civil, Construction & Enricommental Engineering \$907,004.00 Bectrical & Computer Engineering \$907,004.00 Bectrical & Computer Engineering \$907,004.00 Bectrical & Computer Engineering \$900,006.84 Textile Engineering, Chemistry & Science \$925,846.53 Psychology \$900,996.25 Molecular & Structural Biochemistry \$776,498.02 Business Management \$719,038.80 Plant Biology \$711,881.45 Public & International Affairs \$704,611.15 Mechanical & Aerospace Engineering \$998,881.92 History \$994,755.39 Biological & Agricultural Engineering \$968,891.92 History \$994,755.39 Biological & Agricultural Engineering \$968,976.93 Markematics \$672,910.01 Sociology and Arithropology HASS \$967,831.52 Nuclear Engineering \$968,947.92 Markematics <td>Mathematics Computer Science Chemistry Materials Science & Engineering Statistics Plant Pathology Chic Construction & Environmental Engineering Biological & Agricultural Engineering Chemical & Blomolecular Engineering Wood & Paper Science Environmental & Midecular Toxicology Forestry & Environmental Resources Enthomology Mathematics, Science & Technology Education Textile Engineering, Chemistry & Science Nuclear Engineering Genetics Animal Science Molecular & Structural Biochemistry Social Work</td> <td>\$4,495,090.00 \$4,299,454.00 \$4,244,942.00 \$4,049,076.00 \$4,069,076.00 \$4,069,076.00 \$3,871,961.00 \$2,877,062.00 \$2,774,027.00 \$2,774,027.00 \$2,450,497.00 \$2,450,497.00 \$2,396,661.00 \$2,396,661.00 \$2,272,044.00 \$2,256.00 \$2,167,457.00</td> <td>Educational Leadership & Policy Studies Chill, Construction & Environmental Engineering Adult & Higher Education Mechanical & Aerospace Engineering Mathematics Public & International Atlains Statistics English Chemistry Industrial & Systems Engineering Peychology Forestry & Environmental Resources Physics Chemical & Biomolecular Engineering Economics Mathematics, Science & Technology Education</td> <td>247 234 234 234 179 165 154 152 122 121 117 116 110 109</td> <td>Mathematics Mechanical & Aerospace Engineering Adult & Higher Education Physics Chemistry Crop Science Curriculum and Instruction Psychology Materials Science & Engineering Industrial & Systems Engineering Mathematics, Science & Technology Education Educational Leadership & Policy Studies</td> <td>14 14 13 13 12 11 11 11 9 7</td> <td>Electrical & Computer Engineering Communication Psychology Arimal Science Parks, Recreation & Tourism Management Public & International Affairs Computer Science Textile & Apparel Technology & Management Accounting Sociology and Arthropology HASS Molecular & Structural Blochemistry</td> <td>781 964 611 909 589 586 585 429 421</td>	Mathematics Computer Science Chemistry Materials Science & Engineering Statistics Plant Pathology Chic Construction & Environmental Engineering Biological & Agricultural Engineering Chemical & Blomolecular Engineering Wood & Paper Science Environmental & Midecular Toxicology Forestry & Environmental Resources Enthomology Mathematics, Science & Technology Education Textile Engineering, Chemistry & Science Nuclear Engineering Genetics Animal Science Molecular & Structural Biochemistry Social Work	\$4,495,090.00 \$4,299,454.00 \$4,244,942.00 \$4,049,076.00 \$4,069,076.00 \$4,069,076.00 \$3,871,961.00 \$2,877,062.00 \$2,774,027.00 \$2,774,027.00 \$2,450,497.00 \$2,450,497.00 \$2,396,661.00 \$2,396,661.00 \$2,272,044.00 \$2,256.00 \$2,167,457.00	Educational Leadership & Policy Studies Chill, Construction & Environmental Engineering Adult & Higher Education Mechanical & Aerospace Engineering Mathematics Public & International Atlains Statistics English Chemistry Industrial & Systems Engineering Peychology Forestry & Environmental Resources Physics Chemical & Biomolecular Engineering Economics Mathematics, Science & Technology Education	247 234 234 234 179 165 154 152 122 121 117 116 110 109	Mathematics Mechanical & Aerospace Engineering Adult & Higher Education Physics Chemistry Crop Science Curriculum and Instruction Psychology Materials Science & Engineering Industrial & Systems Engineering Mathematics, Science & Technology Education Educational Leadership & Policy Studies	14 14 13 13 12 11 11 11 9 7	Electrical & Computer Engineering Communication Psychology Arimal Science Parks, Recreation & Tourism Management Public & International Affairs Computer Science Textile & Apparel Technology & Management Accounting Sociology and Arthropology HASS Molecular & Structural Blochemistry	781 964 611 909 589 586 585 429 421
Soil Science \$1,110,864,75 Genetics \$1,017,435,43 Materials Science & Engineering \$1,017,435,43 Civil, Construction & Environmental Engineering \$10,111,891,77 Civil, Construction & Environmental Engineering \$961,775,84 Computer Science \$300,566,84 Totalic Engineering, Chemistry & Science \$925,846,53 Psychology \$930,996,35 Industrial & Systems Engineering \$979,071,09 Molecular & Structural Biochemistry \$776,489,02 Business Management \$719,338,80 Plant Biology \$711,881,45 Public & International Affairs \$704,611,15 Mechanical & Aerospace Engineering \$968,81,32 History \$964,755,39 Biological & Agricultural Engineering \$969,4755,39 Biological & Agricultural Engineering \$969,4755,39 Nuclear Engineering \$969,4755,39 Nuclear Engineering \$969,471,81 Nuclear Engineering \$969,471,81 Nuclear Engineering \$969,471,81 Nuclear Engineering \$969,472,21 Biological	Chemistry Materials Science & Engineering Statistics Plant Pathology Civil, Construction & Environmental Engineering Biological & Agricultural Engineering Chemical & Biomolecular Engineering Wood & Paper Science Environmental & Molecular Toxicology Forestry & Environmental Resources Enformology Mathematics, Science & Technology Education Tastile Engineering, Chemistry & Science Nuclear Engineering Genetics Animal Science Molecular & Structural Biochemistry Social Work	\$4,259,454.00 \$4,244.942.00 \$4,106,872.00 \$4,068,076.00 \$4,026,122.00 \$3,864.105.00 \$2,887.981.00 \$2,774,027.00 \$2,774,027.00 \$2,740,953.00 \$2,450,457.00 \$2,450,457.00 \$2,366,661.00 \$2,372,044.00 \$2,167,457.00	Civil, Construction & Environmental Engineering Adult & Higher Education Mechanical & Aerospace Engineering Mathematics Public & International Affairs Statistics English Chemistry Industrial & Systems Engineering Psychology Forestry & Environmental Resources Physics Chemical & Biomolecular Engineering Economics Mathematics, Science & Technology Education	234 234 179 165 154 152 122 121 117 116 110	Mathematics Mechanical & Aerospace Engineering Adult & Higher Education Physics Chemistry Crop Science Curriculum and Instruction Psychology Materials Science & Engineering Industrial & Systems Engineering Mathematics, Science & Technology Education Educational Leadership & Policy Studies	14 13 13 12 11 11 11 11 9 7	Communication Psychology Arimal Science Parks, Recreation & Tourism Management Public & International Affairs Computer Science Textle & Apparel Technology & Management Accounting Sociology and Arritropology HASS Molecular & Structural Biochemistry	664 611 609 589 586 695 429
Genetics \$1,017,435,43 Materials Science & Engineering \$1,011,991,77 Civil, Construction & Environmental Engineering \$970,064,000 Electrical & Computer Engineering \$967,775,84 Computer Science \$930,566,84 Tackle Engineering, Chemistry & Science \$980,966,36 Psychology \$90,966,36 Industrial & Systems Engineering \$797,071,09 Molecular & Structural Biochemistry \$776,486,02 Business Management \$793,088,09 Plant Biology \$711,881,45 Public & International Affairs \$704,611,15 Mechanical & Aerospace Engineering \$968,811,81 Mechanical & Aerospace Engineering \$968,471,82 Biological & Agricultural Engineering \$689,471,82 Macherials & Resource Economics \$672,910,11 Sociology and Arthropology HASS \$678,910,22 Nuclear Engineering \$669,947,92 Mathematics \$610,221,42 Biological Sciences \$942,477,52 Educational Leadership & Policy Studies \$941,682,23 Statistics \$610,281,12	Materials Science & Engineering Statistics Plant Pathology Chiel, Construction & Environmental Engineering Biological & Agricultural Engineering Chemical & Biomolecular Engineering Wood & Paper Science Environmental & Molecular Toxicology Forestry & Environmental Resources Enformology Mathematics, Science & Technology Education Textile Engineering, Chemistry & Science Nuclear Engineering Genetics Arimal Science Molecular & Structural Biochemistry Social Work	\$4,244,942.00 \$4,106,972.00 \$4,049,076.00 \$4,049,076.00 \$3,871,961.00 \$3,871,961.00 \$2,774,027.00 \$2,774,027.00 \$2,740,929.00 \$2,989,061.00 \$2,396,661.00 \$2,372,044.00 \$2,372,044.00 \$2,187,457.00	Adult & Higher Education Mechanical & Aerospace Engineering Mathematics Public & International Affairs Statistics English Chemistry Industrial & Systems Engineering Peychology Forestry & Environmental Resources Physics Chemical & Biomolecular Engineering Economics Mathematics, Science & Technology Education	234 179 165 154 152 122 121 117 116 110	Mechanical & Aerospace Engineering Adult & Higher Education Physics Chemistry Crop Science Curriculum and Instruction Psychology Materials Science & Engineering Industrial & Systems Engineering Mathematics, Science & Technology Education Educational Leadership & Policy Studies	13 13 12 11 11 11 11 9 7	Psychology Animal Science Parks, Recreation & Tourism Management Public & International Affairs Computer Science Textle & Apparel Technology & Management Accounting Sociology and Anthropology HASS Molecular & Structural Biochemistry	611 609 599 596 595 429
Materials Science & Engineering \$1,011,691,77 Civil, Construction & Enricomental Engineering \$970,094,00 Electrical & Computer Engineering \$961,775,84 Computer Science \$905,696,85 Textile Engineering, Chemistry & Science \$925,846,53 Psychology \$900,996,35 Molecular & Structural Biochemistry \$776,498,02 Business Management \$719,038,80 Parti Biology \$711,881,45 Public & International Affairs \$704,611,16 Mechanical & Aerospace Engineering \$998,881,92 History \$994,755,39 Biological & Agricultural Engineering \$988,976,39 Markematics \$672,910,01 Sociology and Arithropology HASS \$667,831,52 Nuclear Engineering \$666,947,32 Markematics \$961,221,42 Biological Sciences \$942,477,52 Educational Leadership & Policy Studies \$641,682,23 Statistics \$168,993,11 Crop Science \$900,002,07 Adult & Higher Education \$588,993,11 Scial Work \$200,393,31 </td <td>Materials Science & Engineering Statistics Plant Pathology Chiel, Construction & Environmental Engineering Biological & Agricultural Engineering Chemical & Biomolecular Engineering Wood & Paper Science Environmental & Molecular Toxicology Forestry & Environmental Resources Enformology Mathematics, Science & Technology Education Textile Engineering, Chemistry & Science Nuclear Engineering Genetics Arimal Science Molecular & Structural Biochemistry Social Work</td> <td>\$4,244,942.00 \$4,106,972.00 \$4,049,076.00 \$4,049,076.00 \$3,871,961.00 \$3,871,961.00 \$2,774,027.00 \$2,774,027.00 \$2,740,929.00 \$2,989,061.00 \$2,396,661.00 \$2,372,044.00 \$2,372,044.00 \$2,187,457.00</td> <td>Mechanical & Aerospace Engineering Mathematics Public & International Affairs Statistics English Chemistry Industrial & Systems Engineering Psychology Forestry & Environmental Resources Physics Chemical & Biomolecular Engineering Economics Mathematics, Science & Technology Education</td> <td>234 179 165 154 152 122 121 117 116 110</td> <td>Adult & Higher Education Physics Chemistry Crop Science Curriculum and Instruction Psychology Materials Science & Engineering Industrial & Systems Engineering Mathematics, Science & Technology Education Educational Leadership & Policy Studies</td> <td>13 13 12 11 11 11 11 9 7</td> <td>Animal Science Parks, Rocreation & Tourism Management Public & International Atlairs Computer Science Textile & Apparel Technology & Management Accounting Sociology and Anthropology HASS Molecular & Structural Blochemistry</td> <td>611 609 599 596 595 429</td>	Materials Science & Engineering Statistics Plant Pathology Chiel, Construction & Environmental Engineering Biological & Agricultural Engineering Chemical & Biomolecular Engineering Wood & Paper Science Environmental & Molecular Toxicology Forestry & Environmental Resources Enformology Mathematics, Science & Technology Education Textile Engineering, Chemistry & Science Nuclear Engineering Genetics Arimal Science Molecular & Structural Biochemistry Social Work	\$4,244,942.00 \$4,106,972.00 \$4,049,076.00 \$4,049,076.00 \$3,871,961.00 \$3,871,961.00 \$2,774,027.00 \$2,774,027.00 \$2,740,929.00 \$2,989,061.00 \$2,396,661.00 \$2,372,044.00 \$2,372,044.00 \$2,187,457.00	Mechanical & Aerospace Engineering Mathematics Public & International Affairs Statistics English Chemistry Industrial & Systems Engineering Psychology Forestry & Environmental Resources Physics Chemical & Biomolecular Engineering Economics Mathematics, Science & Technology Education	234 179 165 154 152 122 121 117 116 110	Adult & Higher Education Physics Chemistry Crop Science Curriculum and Instruction Psychology Materials Science & Engineering Industrial & Systems Engineering Mathematics, Science & Technology Education Educational Leadership & Policy Studies	13 13 12 11 11 11 11 9 7	Animal Science Parks, Rocreation & Tourism Management Public & International Atlairs Computer Science Textile & Apparel Technology & Management Accounting Sociology and Anthropology HASS Molecular & Structural Blochemistry	611 609 599 596 595 429
Civil, Construction & Environmental Engineering \$970,004.00 Blockinol & Computer Engineering \$961,775.84 Computer Engineering \$905,775.84 Computer Engineering \$905,068.85 Toxilo Engineering, Chemistry & Science \$925,846.53 Psychology \$930,996.35 Industrial & Systems Engineering \$770,701.09 Molecular & Structural Biochemistry \$776,880.02 Business Management \$719,308.80 Plant Biology \$711,881.45 Pablic & International Affairs \$704,611.15 Mechanical & Aerospace Engineering \$969,881.92 History \$969,875.39 Biological & Agricultural Engineering \$969,871.49 Agricultural & Resource Economics \$772,910.01 Sociology and Arithropology HASS \$967,831.52 Nuclear Engineering \$968,947.32 Biological Sciences \$642,477.52 Educational Leadership & Policy Studies \$941,692.23 Biological Sciences \$640,692.23 Crop Science \$900,002.07 Adult & Higher Education \$589,993.11 <td< td=""><td>Statistics Plant Pathology Civil, Construction & Environmental Engineering Biological & Agricultural Engineering Chemical & Blomolecular Engineering Wood & Paper Science Environmental & Molecular Toxicology Forestry & Environmental Resources Entomology Mathematics, Science & Technology Education Toxicle Engineering, Chemistry & Science Nuclear Engineering Genetics Animal Science Molecular & Structural Biochemistry Social Work</td><td>\$4,106,872.00 \$4,049.076.00 \$4,056,122.00 \$3,871.361.00 \$3,684.105.00 \$2,877.068.00 \$2,774.027.00 \$2,740.953.00 \$2,740.953.00 \$2,680.159.00 \$2,680.87.00 \$2,372.044.00 \$2,372.044.00 \$2,372.044.00 \$2,187.457.00</td><td>Mathematics Public & International Attains Statistics English Chemistry Industrial & Systems Engineering Posschology Forestry & Environmental Resources Physics Chemical & Biomolecular Engineering Economics Mathematics, Science & Technology Education</td><td>179 165 154 152 122 121 117 116 110 109</td><td>Physics Chemistry Crop Science Curriculum and Instruction Psychology Materials Science & Engineering Industrial & Systems Engineering Mathematics, Science & Technology Education Educational Leadership & Policy Studies</td><td>13 12 11 11 11 11 9 7</td><td>Parks, Recreation & Tourism Management Public & International Affairs Computer Science Textile & Apparel Technology & Management Accounting Sociology and Anthropology HASS Molecular & Structural Blochemistry</td><td>609 589 586 585 429</td></td<>	Statistics Plant Pathology Civil, Construction & Environmental Engineering Biological & Agricultural Engineering Chemical & Blomolecular Engineering Wood & Paper Science Environmental & Molecular Toxicology Forestry & Environmental Resources Entomology Mathematics, Science & Technology Education Toxicle Engineering, Chemistry & Science Nuclear Engineering Genetics Animal Science Molecular & Structural Biochemistry Social Work	\$4,106,872.00 \$4,049.076.00 \$4,056,122.00 \$3,871.361.00 \$3,684.105.00 \$2,877.068.00 \$2,774.027.00 \$2,740.953.00 \$2,740.953.00 \$2,680.159.00 \$2,680.87.00 \$2,372.044.00 \$2,372.044.00 \$2,372.044.00 \$2,187.457.00	Mathematics Public & International Attains Statistics English Chemistry Industrial & Systems Engineering Posschology Forestry & Environmental Resources Physics Chemical & Biomolecular Engineering Economics Mathematics, Science & Technology Education	179 165 154 152 122 121 117 116 110 109	Physics Chemistry Crop Science Curriculum and Instruction Psychology Materials Science & Engineering Industrial & Systems Engineering Mathematics, Science & Technology Education Educational Leadership & Policy Studies	13 12 11 11 11 11 9 7	Parks, Recreation & Tourism Management Public & International Affairs Computer Science Textile & Apparel Technology & Management Accounting Sociology and Anthropology HASS Molecular & Structural Blochemistry	609 589 586 585 429
Electrical & Computer Engineering \$961,775,84	Plant Pathology Civil, Construction & Environmental Engineering Biological & Agricultural Engineering Chemical & Biomolecular Engineering Wood & Paper Science Environmental & Midecular Toxicology Forestry & Environmental Resources Entomology Mathematics, Science & Technology Education Tastile Engineering, Chemistry & Science Nuclear Engineering Genetics Animal Science Animal Science Molecular & Structural Biochemistry Social Work	\$4,049,076.00 \$4,028,122.00 \$3,871,961.00 \$2,867,068.00 \$2,740,953.00 \$2,740,953.00 \$2,450,497.00 \$2,396,561.00 \$2,396,561.00 \$2,372,044.00 \$2,272,044.00 \$2,272,044.00 \$2,272,044.00 \$2,272,044.00 \$2,272,044.00	Public & International Affairs Statistics English Chemistry Industrial & Systems Engineering Peychology Forestry & Environmental Resources Physics Chemical & Biomolecular Engineering Economics Mathematics, Science & Technology Education	165 154 152 122 121 117 116 110	Chemistry Crop Science Curriculum and Instruction Peychology Materials Science & Engineering Industrial & Systems Engineering Mathematics, Science & Technology Education Educational Leadership & Policy Studies	12 11 11 11 9 7	Public & International Affairs Computer Science Textile & Apparel Technology & Management Accounting Sociology and Arthropology HASS Molecular & Structural Blochemistry	589 586 585 429
Computer Science \$300,566,84 Taxisle Engineering, Chemistry & Science \$225,846,53 Psychology \$300,986,33 Industrial & Systems Engineering \$797,071,09 Molecular & Structural Blochemistry \$776,498,02 Business Management \$711,881,45 Public & International Affairs \$704,611,15 Mechanical & Aerospace Engineering \$999,881,92 History \$998,881,92 History \$998,781,92 Biological & Agricultural Engineering \$998,781,92 Agricultural & Resource Economics \$672,910,01 Sociology and Anthropology HASS \$667,881,52 Nuclear Engineering \$998,473,24 Mathematics \$661,221,42 Biological Sciences \$942,477,52 Educational Leadership & Policy Studies \$841,682,23 Statistics \$610,881,12 Crop Science \$900,002,07 Aulit & Higher Education \$689,983,11 Scial Work \$500,983,31 Foreign Languages & Literatures \$487,011,00 English \$446,919,38	Civil, Construction & Environmental Engineering Biological & Agricultural Engineering Chemical & Biomolecular Engineering Wood & Paper Science Environmental & Midecular Toxicology Forestry & Environmental Resources Enfonciogy Mathematics, Science & Technology Education Toxical Engineering, Chemistry & Science Nuclear Engineering Genetics Animal Science Molecular & Structural Biochemistry Social Work	\$4,026,122.00 \$3,871,361.00 \$3,664,105.00 \$2,887,086.00 \$2,774,027.00 \$2,740,953.00 \$2,460,670.00 \$2,460,670.00 \$2,366,661.00 \$2,372,044.00 \$2,187,457.00	Statistics English Chemistry Industrial & Systems Engineering Psychology Forestry & Environmental Resources Physics Chemical & Blomolecular Engineering Economics Mathematics, Science & Technology Education	154 152 122 121 117 116 110	Crop Science Curriculum and Instruction Psychology Materials Science & Engineering Industrial & Systems Engineering Mathematics, Science & Technology Education Educational Leadership & Policy Studies	11 11 11 9 7	Computer Science Texille & Apparel Technology & Management Accounting Sociology and Anthropology HASS Molecular & Structural Biochemistry	596 585 429 421
Taxile Engineering, Chemistry & Science \$925,846,53 Psychology \$930,986,35 Industrial & Systems Engineering \$779,707,09 Molecular & Structural Biochemistry \$776,488,02 Business Management \$719,338,80 Plant Biology \$711,881,65 Platt Biology \$711,881,65 Mechanical & Aerospace Engineering \$996,881,92 History \$994,795,39 Biological & Agricultural Engineering \$989,491,48 Agricultural & Resource Economics \$772,910,01 Sociology and Anthropology HASS \$967,831,52 Nuclear Engineering \$968,947,92 Markematics \$962,947,92 Biological Sciences \$442,477,52 Educational Leadership & Policy Studies \$941,692,23 Statistics \$10,681,12 Crop Science \$900,002,07 Adult & Higher Education \$589,983,11 Curriculum and Instruction \$588,993,11 Curriculum and Instruction \$588,993,11 Foreign Languages & Literatures \$447,011,00 English \$449,919,58	Biological & Agricultural Engineering Chemical & Biomolecular Engineering Wood & Paper Science Environmental & Molecular Toxicology Forestry & Environmental Resources Entimology Mathematics, Science & Technology Education Textile Engineering, Chemistry & Science Nuclear Engineering Genetics Arimal Science Molecular & Structural Biochemistry Social Work	\$3,871,961.00 \$3,664.105.00 \$2,887,068.00 \$2,774.027.00 \$2,740.953.00 \$2,600.159.00 \$2,600.487.00 \$2,372.044.00 \$2,372.044.00 \$2,187.457.00	English Chemistry Industrial & Systems Engineering Psychology Forestry & Environmental Resources Physics Chemical & Biomolecular Engineering Economics Mathematics, Science & Technology Education	152 122 121 117 116 110	Curriculum and Instruction Psychology Materials Science & Engineering Industrial & Systems Engineering Mathematics, Science & Technology Education Educational Leadership & Policy Studies	11 11 9 7	Accounting Sociology and Anthropology HASS Molecular & Structural Blochemistry	429 421
Psychology \$800,996.35 Industrial & Systems Engineering \$979,071.09 Molecular & Structural Blochemistry \$776,496.02 Business Management \$719,398.80 Plant Biology \$711,881.45 Public & International Atlairs \$70,4611.15 Mochanicul & Aerospace Engineering \$969,881.92 History \$964,785.39 Biological & Agricultural Engineering \$969,841.82 Marginultural & Resource Economics \$972,910.01 Sociology and Arthropology HASS \$967,831.52 Nuclear Engineering \$969,947.92 Marbematics \$961,221.42 Biological Sciences \$424,477.52 Educational Leadership & Policy Studies \$941,682.23 Statistics \$961,081.21 Crop Science \$900,002.07 Adult & Higher Education \$589,993.11 Curriculum and Instruction \$589,993.11 Foreign Languages & Literatures \$447,011.00 English \$449,919.59 Forestry & Environmental Resources \$437,525.40 Poultry Science \$498,422.59 <td>Chemical & Biomolecular Engineering Wood & Paper Science Environmental & Molecular Toxicology Forestry & Environmental Resources Entomology Mathematics, Science & Technology Education Textile Engineering, Chemistry & Science Nuclear Engineering Genetics Animal Science Molecular & Structural Biochemistry Social Work</td> <td>\$3,664,105.00 \$2,867,068.00 \$2,774,027.00 \$2,740,953.00 \$2,660,159.00 \$2,450,497.00 \$2,395,661.00 \$2,372,044.00 \$2,262,265.00 \$2,187,457.00</td> <td>Chemistry Industrial & Systems Engineering Psychology Forestry & Environmental Resources Physics Chemical & Biomolecular Engineering Economics Mathematics, Science & Technology Education</td> <td>122 121 117 116 110</td> <td>Psychology Materials Science & Engineering Industrial & Systems Engineering Mathematics, Science & Technology Education Educational Leadership & Policy Studies</td> <td>11 9 7 7</td> <td>Accounting Sociology and Anthropology HASS Molecular & Structural Blochemistry</td> <td>429 421</td>	Chemical & Biomolecular Engineering Wood & Paper Science Environmental & Molecular Toxicology Forestry & Environmental Resources Entomology Mathematics, Science & Technology Education Textile Engineering, Chemistry & Science Nuclear Engineering Genetics Animal Science Molecular & Structural Biochemistry Social Work	\$3,664,105.00 \$2,867,068.00 \$2,774,027.00 \$2,740,953.00 \$2,660,159.00 \$2,450,497.00 \$2,395,661.00 \$2,372,044.00 \$2,262,265.00 \$2,187,457.00	Chemistry Industrial & Systems Engineering Psychology Forestry & Environmental Resources Physics Chemical & Biomolecular Engineering Economics Mathematics, Science & Technology Education	122 121 117 116 110	Psychology Materials Science & Engineering Industrial & Systems Engineering Mathematics, Science & Technology Education Educational Leadership & Policy Studies	11 9 7 7	Accounting Sociology and Anthropology HASS Molecular & Structural Blochemistry	429 421
Industrial & Systems Engineering \$797,071.09 Molecular & Structural Biochemistry \$776,488.02 Business Management \$719,308.80 Business Management \$719,308.80 Business Management \$719,308.80 Synthesis & International Affairs \$704,681.15 Mechanical & Aeroepace Engineering \$968,881.92 Biological & Agricultural Engineering \$968,491.48 Agricultural & Resource Economics \$672,910.01 Sociology and Arthropology HASS \$967,831.52 Sociology and Arthropology HASS \$967,831.52 Biological Sciences \$961,221.42 Composition \$968,947.92 Mathematics \$961,221.42 Biological Sciences \$961,221.42 Corp Science \$960,002.07 Adult & Higher Education \$960,002.07 Adult & Higher Education \$989,931.11 Social Work \$500,963.31 Foreign Languages & Literatures \$879,011.00 English \$449,919.58 Plant Pathology \$446,601.87 Forestry & Environmental Resources \$947,525.60 Poultry Science \$497,525.60 Poultry Science \$497,525.60 Marine, Earth and Altmospharic Sciences \$939,910.92 Communication \$939,296.60 Philosophy & Religion \$939,297.59 Economics \$931,285.15 Environmental & Molecular Toxicology \$930,277.90	Wood & Paper Science Environmental & Molecular Toxicology Forestry & Environmental Resources Entomology Mathematics, Science & Technology Education Tathematics, Science & Technology Education Nuclear Engineering, Chemistry & Science Nuclear Engineering Genetics Animal Science Molecular & Structural Biochemistry Social Work	\$2,887,068,00 \$2,774,027,00 \$2,740,953,00 \$2,860,159,00 \$2,450,497,00 \$2,396,561,00 \$2,372,044,00 \$2,372,044,00 \$2,187,457,00	Industrial & Systems Engineering Psychology Forestry & Environmental Resources Physics Chemical & Biomolecular Engineering Economics Mathematics, Science & Technology Education	121 117 116 110 109	Materials Science & Engineering Industrial & Systems Engineering Mathematics, Science & Technology Education Educational Leadership & Policy Studies	9 7 7	Sociology and Anthropology HASS Molecular & Structural Biochemistry	421
Molecular & Structural Biochemistry \$776,498.02 Business Management \$19,038.80 Public & International Affairs \$71,881.45 Public & International Affairs \$704,611.15 Mechanical & Aerospace Engineering \$998,881.92 History \$994,755.93 Biological & Agricultural Engineering \$989,491.48 Agricultural & Resource Economics \$672,910.01 Sociology and Anthropology HASS \$967,891.52 Nuclear Engineering \$968,947.92 Mathematics \$661,221.42 Biological Sciences \$942,977.52 Educational Leadership & Policy Studies \$941,692.23 Statistics \$161,692.21 Crop Science \$960,002.07 Adult & Higher Education \$889,993.11 Social Work \$500,983.31 Foreign Languages & Literatures \$487,011.00 English \$446,911.87 Forestry & Environmental Resources \$447,525.40 Poultry Science \$499,402.99 Horricultural Science \$417,119.01 Marine, Earth and Almospheric Sciences \$399,910	Environmental & Molecular Toxicology Forestry & Environmental Resources Enformology Mathematics, Science & Technology Education Textile Engineering, Chemistry & Science Nuclear Engineering Genetics Animal Science Molecular & Structural Biochemistry Social Work	\$2,774,027,00 \$2,740,953,00 \$2,680,169,00 \$2,450,497,00 \$2,396,561,00 \$2,372,044,00 \$2,372,044,00 \$2,322,456,00 \$2,187,457,00	Psychology Forestry & Environmental Resources Physics Chemical & Biomolecular Engineering Economics Mathematics, Science & Technology Education	117 116 110 109	Industrial & Systems Engineering Mathematics, Science & Technology Education Educational Leadership & Policy Studies	7	Molecular & Structural Biochemistry	
Business Management \$719,398.80 Plant Biology \$711,881.45 Public & International Affairs \$704,611.15 Mochanicul & Aerospace Engineering \$998,881.92 History \$994,795.99 Biological & Agricultural Engineering \$989,491.48 Rajquicultural & Resource Economics \$972,910.01 Sociology and Anthropology HASS \$967,891.52 Nuclear Engineering \$969,947.92 Marbematics \$961,221.42 Biological Sciences \$424,477.52 Educational Leadership & Policy Studies \$941,692.23 Statistics \$610,881.12 Crop Science \$900,002.07 Adult & Higher Education \$589,993.11 Curriculum and Instruction \$589,993.11 Curriculum and Instruction \$589,993.11 Foreign Languages & Literatures \$447,011.00 English \$449,919.58 Foreign Languages & Literatures \$457,525.40 Poultry Science \$437,525.40 Poultry Science \$459,422.59 Horricultural Science \$417,119.01	Forestry & Environmental Resources Entomology Mathematics, Science & Technology Education Textile Engineering, Chemistry & Science Nuclear Engineering Genetics Arimal Science Molecular & Structural Biochemistry Social Work	\$2,740,953.00 \$2,680,159.00 \$2,450,497.00 \$2,396,561.00 \$2,372,044.00 \$2,322,456.00 \$2,187,457.00	Forestry & Environmental Resources Physics Chemical & Biomolecular Engineering Economics Mathematics, Science & Technology Education	116 110 109	Mathematics, Science & Technology Education Educational Leadership & Policy Studies	7		413
Plant Biology \$711,881.45 Public & International Affairs \$704,611.15 Mechanical & Aerospace Engineering \$998,881.92 History \$994,765.39 Biological & Agricultural Engineering \$969,491.48 Agricultural & Resource Economics \$967,291.001 Sociology and Arthropology HASS \$967,891.52 Nuclear Engineering \$966,947.92 Mathematics \$961,221.42 Biological Sciences \$942,477.52 Educational Leadership & Policy Studies \$611,082.23 Statistics \$101,081.12 Crop Science \$960,993.11 Curricultum and Instruction \$889,993.11 Curricultum and Instruction \$889,993.11 Foreign Languages & Literatures \$467,011.00 English \$449,919.58 Pariar Pathology \$465,601.87 Forestry & Environmental Resources \$477,752.50 Poultry Science \$969,822.29 Horricultural Science \$417,119.01 Marine, Earth and Almospheric Sciences \$399,903.92 Communication \$399,903.93	Entomology Mathematics, Science & Technology Education Textile Engineering, Chemistry & Science Nuclear Engineering Genetics Animal Science Molecular & Structural Biochemistry Social Work	\$2,680,159,00 \$2,450,497,00 \$2,396,561,00 \$2,372,044,00 \$2,322,456,00 \$2,187,457,00	Physics Chemical & Biomolecular Engineering Economics Mathematics, Science & Technology Education	110	Educational Leadership & Policy Studies		English	
Public & International Affairs \$704,611.15 Mechanical & Aerospace Engineering \$996,881.32 History \$964,755.39 Biological & Agricultural Engineering \$969,881.32 History \$964,755.39 Biological & Agricultural Engineering \$969,491.48 Agricultural & Resource Economics \$672,910.01 Sociology and Anthropology HASS \$667,891.52 Mathematics \$969,847.32 Mathematics \$969,847.32 Biological Sciences \$964,687.23 Statistics \$910,891.12 Crop Science \$900,002.07 Adult & Higher Education \$989.993.11 Social Work \$500,393.31 Foreign Languages & Literatures \$487,011.00 English \$449,919.58 Piart Pathology \$446,601.87 Forestry & Environmental Resources \$427,825.40 Poultry Science \$939,402.59 Marine, Earth and Almospharic Sciences \$399,910.92 Communication \$392,295.60 Microbiology \$394,775.90 Economics <td< td=""><td>Mathematics, Science & Technology Education Textile Engineering, Chemistry & Science Nuclear Engineering Genetics Animal Science Molecular & Structural Biochemistry Social Work</td><td>\$2,450,497.00 \$2,396,561.00 \$2,372,044.00 \$2,322,456.00 \$2,187,457.00</td><td>Chemical & Biomolecular Engineering Economics Mathematics, Science & Technology Education</td><td>109</td><td></td><td>6</td><td>-</td><td>399</td></td<>	Mathematics, Science & Technology Education Textile Engineering, Chemistry & Science Nuclear Engineering Genetics Animal Science Molecular & Structural Biochemistry Social Work	\$2,450,497.00 \$2,396,561.00 \$2,372,044.00 \$2,322,456.00 \$2,187,457.00	Chemical & Biomolecular Engineering Economics Mathematics, Science & Technology Education	109		6	-	399
Mechanical & Aerospace Engineering \$996,881.92 History \$994,755.39 Biological & Agricultural Engineering \$689,491.48 Agricultural & Resource Economics \$972,910.01 Sociology and Anthropology HASS \$967,831.52 Nuclear Engineering \$666,947.92 Marbematics \$661,947.92 Biological Sciences \$642,477.52 Educational Leadership & Policy Studies \$941,692.23 Statistics \$100,002.07 Adult & Higher Education \$589,993.11 Curriculum and Instruction \$589,993.11 Social Work \$500,993.31 Foreign Languages & Literatures \$447,011.00 Engish \$449,919.58 Part Parthology \$445,601.87 Forestry & Environmental Resources \$437,525.40 Poultry Science \$198,902.29 Marine, Earth and Almospheric Sciences \$399,903.22 Communication \$392,295.60 Philosophy & Religion \$391,693.95 Economics \$397,193.40 Enformology \$397,193.40 Enformoment	Textile Engineering, Chemistry & Science Nuclear Engineering Genetics Arimal Science Molecular & Structural Biochemistry Social Work	\$2,396,561.00 \$2,372,044.00 \$2,322,456.00 \$2,187,457.00	Economics Mathematics, Science & Technology Education		Genetics		Mathematics, Science & Technology Education	367
History \$894,755.39 Biological & Agricultural Engineering \$898,491.68 Agricultural & Resource Economics \$672,910.18 Sociology and Arthropology HASS \$667,891.52 Nuclear Engineering \$669,947.92 Mathematics \$669,947.92 Biological Sciences \$942,477.52 Educational Leadership & Policy Studies \$941,982.23 Statistics \$610,981.12 Curricultura and Instruction \$689,993.11 Curricultura and Instruction \$689,993.11 Curricultura and Instruction \$689,993.11 Foreign Languages & Literatures \$487,011.00 English \$449,919.58 Part Pathology \$446,601.87 Forestry & Environmental Resources \$497,055.50 Poultry Science \$495,422.99 Henricultural Science \$497,192.50 Marine, Earth and Atmospheric Sciences \$399,910.92 Communication \$392,295.60 Philosophy & Religion \$391,693.95 Economics \$391,793.40 Enformmental & Estension Education \$393,293.60 Enformanics \$391,793.40 Sprinchermat & Estension Education \$393,293.60 Enforcemental & Molecular Toxicology \$390,277.90	Nuclear Engineering Genetics Arimal Science Molocular & Structural Biochemistry Social Work	\$2,372,044.00 \$2,322,456.00 \$2,187,457.00	Mathematics, Science & Technology Education	104		6	Chemical & Biomolecular Engineering	363
Biological & Agricultural Engineering	Genetics Arimal Science Molecular & Structural Biochemistry Social Work	\$2,322,456.00 \$2,187,457.00		104	Food, Bioprocessing, and Nutrition Sciences	5	Forestry & Environmental Resources	345
Agricultural & Resource Economics \$672,910.01 Sociology and Anthropology HASS \$667,831.52 Nuclear Engineering \$666,947.92 Mathematics \$665,947.92 Biological Sciences \$942,477.52 Educational Leadership & Policy Studies \$941,692.23 Statistics \$10,898.112 Crop Science \$600,002.07 Adult & Higher Education \$589,993.11 Social Work \$500,993.31 Foreign Languages & Literatures \$487,011.00 English \$449,919.58 Plant Pathology \$445,601.87 Forestry & Environmental Resources \$437,825.40 Poultry Science \$499,422.99 Marine, Earth and Atmospheric Sciences \$399,910.32 Communication \$392,295.60 Philosophy & Religion \$391,603.95 Economics \$391,225.15 Entomology \$392,775.00 Economics \$395,239.45 Environmental & Molecular Toxicology \$395,277.30	Animal Science Molecular & Structural Biochemistry Social Work	\$2,187,457.00	Marine, Earth and Atmospheric Sciences	104	Forestry & Environmental Resources	5	Agricultural & Resource Economics	337
Sociology and Anthropology HASS \$667,831.52	Molecular & Structural Biochemistry Social Work			98	Horticultural Science	5	History	335
Nuclear Engineering \$66,947.92 Mathematics \$661,221.42 Biological Sciences \$642,477.52 Educational Leadership & Policy Studies \$610,861.12 Crop Science \$600,002.07 Adult & Higher Education \$589,963.11 Curriculum and Instruction \$589,963.11 Curriculum and Instruction \$589,963.11 Social Work \$500,363.31 Foreign Languages & Literatures \$487,011.00 English \$449,919.59 Plart Pathology \$445,601.87 Forestry & Environmental Resources \$497,525.40 Poultry Science \$496,422.99 Marine, Earth and Atmospheric Sciences \$398,910.32 Communication \$392,295.60 Microbiology \$390,475.69 Economics \$391,325.15 Entomology \$357,134.40 Agricultural & Extension Education \$395,293.45 Environmental & Molecular Toxicology \$350,277.30	Social Work	\$2,183,554,00	Accounting	95	Nuclear Engineering	5	Chemistry	298
Nuclear Engineering \$666,947.92 Mathematics \$661,221.42 Biological Sciences \$642,477.62 Educational Leadership & Policy Studies \$941,692.23 Statistics \$610,861.12 Crop Science \$900,002.07 Adult & Higher Education \$589,963.11 Curriculum and Instruction \$589,963.11 Social Work \$500,368.31 Foreign Languages & Literatures \$487,011.00 English \$449,919.59 Plant Pathology \$445,601.87 Forestry & Ernitronmental Resources \$497,525.40 Poultry Science \$493,422.99 Marina, Earth and Atmospheric Sciences \$398,910.92 Communication \$392,295.60 Philosophy & Religion \$391,625.60 Microbiology \$390,475.69 Economics \$391,325.15 Entomology \$395,277.30 Environmental & Molecular Toxicology \$395,277.30			Architecture	86	Plant Biology	5	Biomedical Engineering	275
Mathematics \$661,221.42 Biological Sciences \$942,477.52 Educational Leadership & Policy Studies \$641,692.23 Statistics \$100,891.12 Crop Science \$603,002.07 Adult & Higher Education \$589.963.11 Corricolum and Instruction \$589.963.11 Social Work \$500,983.31 Foreign Languages & Literatures \$467,011.00 English \$448,919.58 Forestry & Environmental Resources \$437,825.40 Poultry Science \$499,422.59 Marine, Earth and Atmospheric Sciences \$398,910.92 Communication \$392,295.60 Philosophy & Religion \$391,693.95 Microbiology \$394,775.99 Economics \$391,205.15 Entomology \$397,194.40 Agricultural & Extension Education \$395,293.45 Environmental & Molecular Toxicology \$395,277.30		\$1,999,204.00	Biomedical Engineering	75	Entomology	4	Crop Science	240
Biological Sciences		\$1,918,654.00	Agricultural & Extension Education	74	Environmental & Molecular Toxicology	4	Marine, Earth and Atmospheric Sciences	228
Educational Leadership & Policy Studies \$641,662.23 Statistics \$810,861.12 Crop Science \$600,002.07 Adult & Hilpher Education \$589,993.11 Curriculum and Instruction \$588,993.11 Social Work \$500,993.31 Foreign Languages & Literatures \$487,011.00 English \$449,919.59 Plant Pathology \$445,601.87 Forestry & Environmental Resources \$437,525.40 Poultry Science \$468,422.69 Hortscultural Science \$417,119.01 Marine, Earth and Almospheric Sciences \$39,910.32 Communication \$392,295.60 Microbiology \$390,475.69 Economics \$391,325.16 Entomology \$397,134.40 Agricultural & Extension Education \$395,223.45 Environmental & Molecular Toxicology \$395,277.30	Horticultural Science	\$1,905,842.00	Biological Sciences	72	Molecular & Structural Biochemistry	4	Horticultural Science	225
Statistics \$610,861.12 Crop Science \$800,002.07 Adult & Higher Education \$588,963.11 Corriculum and Instruction \$589,963.11 Social Work \$500,963.31 Foreign Languages & Literatures \$487,011.00 English \$449,919.58 Plant Pathology \$445,601.87 Forestry & Environmental Resources \$497,525.40 Poultry Science \$498,422.59 Hortfouthural Science \$417,119.01 Marine, Earth and Atmospheric Sciences \$398,910.92 Communication \$392,296.60 Philosophy & Religion \$391,025.15 Entomology \$397,134.40 Agricultural & Extension Education \$395,293.45 Environmental & Molecular Toxicology \$395,277.30	Soil Science	\$1,845,196.00	Food, Bioprocessing, and Nutrition Sciences	72	Parks, Recreation & Tourism Management	4	Mathematics	194
Crop Science \$600,002.07 Adult & Higher Education \$588,953.11 Curniculum and Instruction \$588,953.11 Social Work \$500,953.31 Foreign Languages & Literatures \$487,011.00 English \$449,919.58 Part Parthology \$456,601.87 Forestry & Environmental Resources \$437,525.40 Poultry Science \$498,422.59 Horscultural Science \$17,119.01 Marine, Earth and Atmospheric Sciences \$399,910.32 Communication \$392,295.60 Philosophy & Religion \$391,693.95 Economics \$391,295.15 Entomology \$397,194.40 Agricultural & Extension Education \$352,838.45 Enformomental & Molecular Toxicology \$350,277.30								160
Adult & Higher Education \$588,963,11 Curriculum and Instruction \$588,963,11 Social Work \$500,363,31 Foreign Languages & Literatures \$497,011,00 English \$449,919,58 Parist Pathology \$445,601,87 Forestry & Environmental Resources \$497,525,40 Poultry Science \$498,422,99 Horticultural Science \$417,119,01 Marine, Earth and Almospheric Sciences \$399,910,32 Communication \$392,295,60 Philosophy & Religion \$991,693,95 Microbiology \$390,75,99 Economics \$361,325,15 Entomology \$397,134,40 Agricultural & Extension Education \$356,237,30 Environmental & Molecular Toxicology \$350,277,30	Food, Bioprocessing, and Nutrition Sciences	\$1,709,102.00	History	70	Plant Pathology	4	Industrial & Systems Engineering	
Curriculum and Instruction \$588,963.11 Social Work \$500,083.31 Foreign Languages & Literatures \$487,011.00 English \$449,019.58 Plant Pathology \$445,601.87 Forestry & Environmental Resources \$437,525.60 Poultry Science \$436,422.99 Horiscultural Science \$417,19.01 Marine, Earth and Almospheric Sciences \$398,910.92 Communication \$392,295.60 Microbiology \$390,475.69 Economics \$391,325.15 Entomology \$395,734.40 Agricultural & Extension Education \$395,239.45 Environmental & Molecular Toxicology \$395,277.30	Industrial & Systems Engineering	\$1,677,342.00	Materials Science & Engineering	70	Agricultural & Resource Economics	3	Architecture	160
Social Work \$500,983.31 Foreign Languages & Literatures \$487,011.00 English \$449,919.58 Plant Pathology \$445,601.87 Forestry & Environmental Resources \$437,525.40 Poultry Science \$498,422.59 Marine, Earth and Atmospheric Sciences \$398,910.92 Communication \$392,295.60 Philosophy & Religion \$391,603.95 Microbiology \$394,75.69 Economics \$391,225.15 Entomology \$357,134.40 Agricultural & Extension Education \$352,239.34 Environmental & Molecular Toxicology \$350,277.30	Curriculum and Instruction	\$1,484,996.00	Microbiology	66	Biological & Agricultural Engineering	3	Textile Engineering, Chemistry & Science	159
Foreign Languages & Literatures \$487,011.00 English \$449,919.58 Brait Pathology \$446,601.87 Forestry & Environmental Resources \$475,255.40 Poultry Science \$496,422.59 Horricultural Science \$477,119.01 Marine, Earth and Atmospheric Sciences \$399,910.32 Communication \$392,295.60 Philosophy & Religion \$391,683.95 Microbiology \$390,475.99 Economics \$361,225.15 Entomology \$397,134.40 Agricultural & Extension Education \$356,283.45 Environmental & Molecular Toxicology \$350,277.30	Plant Biology	\$1,465,895.00	Crop Science	63	Biological Sciences	3	Biological & Agricultural Engineering	151
English \$449,919.58 Plant Pathology \$445,601.87 Forestry & Environmental Resources \$437,525.40 Poultry Science \$439,422.59 Horsicultural Science \$417,119.01 Marine, Earth and Almospheric Sciences \$399,910.32 Communication \$392,295.60 Philosophy & Religion \$391,683.95 Microbiology \$390,475.89 Economics \$981,325.15 Enformology \$395,134.40 Agricultural & Extension Education \$352,233.45 Environmental & Molecular Toxicology \$390,277.30	Parks, Recreation & Tourism Management	\$1,402,930.00	Parks, Recreation & Tourism Management	63	Economics	3	Foreign Languages & Literatures	147
Plant Pathology \$445,801.87 Forestry & Environmental Resources \$437,825.40 Poultry Science \$436,422.89 Horiscultural Science \$417,119.01 Marine, Earth and Almospheric Sciences \$398,910.92 Communication \$392,295.60 Microbiology \$390,475.69 Economics \$391,325.15 Entomology \$395,7134.40 Agricultural & Extension Education \$395,283.45 Environmental & Molecular Toxicology \$390,277.90	Biomedical Engineering	\$1,321,108.00	Social Work	61	Marine, Earth and Atmospheric Sciences	3	Microbiology	146
Forestry & Environmental Resources \$437,525,80 Poultry Science \$496,422,59 Horscultural Science \$417,119,01 Marine, Earth and Almospheric Sciences \$399,910,32 Communication \$392,295,60 Philosophy & Religion \$391,693,95 Microbiology \$390,475,69 Economics \$961,225,15 Entomology \$395,134,40 Agricultural & Extension Education \$356,239,40 Environmental & Molecular Toxicology \$350,277,30	Textile & Apparel Technology & Management	\$1,276,257.00	Nuclear Engineering	57	Microbiology	3	Food, Bioprocessing, and Nutrition Sciences	145
Poultry Science \$436,422.59 Horsfoultural Science \$417,119.01 Marine, Earth and Almospheric Sciences \$398,910.92 Communication \$392,295.00 Philosophy & Religion \$396,93.95 Microbiology \$390,475.89 Economics \$361,925.15 Entermology \$357,134.40 Agricultural & Extension Education \$352,233.45 Environmental & Molecular Toxicology \$350,277.30	Agricultural & Resource Economics	\$1,193,628.00	Agricultural & Resource Economics	55	Animal Science	2	Agricultural & Extension Education	144
Hortsouthural Science \$417,119.01 Marine, Earth and Almospheric Sciences \$399,910.92 Communication \$392,296.80 Philosophy & Religion \$391,683.95 Microbiology \$390,475.89 Economics \$981,325.15 Enformology \$395,134.40 Agricultural & Extension Education \$352,233.45 Environmental & Molecular Toxicology \$350,277.30	Psychology	\$1,179,874.00	Landscape Architecture	54	Public & International Affairs	2	Nuclear Engineering	136
Marine, Earth and Atmospheric Sciences \$398,910.92 Communication \$392,295.60 Philosophy & Religion \$391,693.95 Microbiology \$390,475.99 Economics \$391,225.15 Entomology \$397,194.40 Agricultural & Extension Education \$356,297.80 Environmental & Molecular Toxicology \$350,277.30	Electrical & Computer Engineering	\$996,665.00	Sociology and Anthropology HASS	50	Sociology and Anthropology HASS	2	Curriculum and Instruction	131
Marine, Earth and Atmospheric Sciences \$398,910.92 Communication \$392,296.60 Philosophy & Religion \$391,693.95 Microbiology \$399,475.99 Economics \$391,325.15 Entomology \$397,134.40 Agricultural & Extension Education \$395,237.50 Environmental & Molecular Toxicology \$395,277.30	Microbiology	\$572,763.00	Animal Science	49	Sail Science	2	Physics	127
Philosophy & Religion \$391,663.95 Microbiology \$390,475.99 Economics \$361,325.15 Entermology \$367,134.40 Agricultural & Extension Education \$355,233.45 Environmental & Molecular Toxicology \$350,277.30	Economics	\$425,135.00	Biological & Agricultural Engineering	48	Business Management	1	Graphic Design	113
Philosophy & Religion \$391,663.95 Microbiology \$390,475.99 Economics \$361,325.15 Entermology \$367,134.40 Agricultural & Extension Education \$355,233.45 Environmental & Molecular Toxicology \$350,277.30	Accounting	\$345,980.00	Horticultural Science	48	Poultry Science	1	Wood & Paper Science	112
Microbiology \$990,475.89 Economics \$981,325.15 Enformology \$957,134.40 Agricultural & Extension Education \$956,283.45 Environmental & Molecular Toxicology \$950,277.90	Sociology and Anthropology HASS	\$329,497.00	Textile & Apparel Technology & Management	47	Accounting	0	Philosophy & Religion	99
Economics \$961,825.15 Entomology \$357,134.40 Agricultural & Extension Education \$356,283.45 Environmental & Molecular Toxicology \$350,277.30	Business Management	\$243,188.00	Entomology	41	Agricultural & Extension Education	0	Social Work	94
Entomology \$357,134.40 Agricultural & Extension Education \$356,283.45 Environmental & Molecular Toxicology \$350,277.30	Philosophy & Religion	\$198,182.00	Plant Pathology	37	Architecture	0	Economics	86
Agricultural & Extension Education \$356,283.45 Environmental & Molecular Toxicology \$350,277.90		\$198,182.00	**	36				83
Environmental & Molecular Toxicology \$350,277.30	English		Communication	36	Art + Design	0	Art + Design	77
	History	\$171,055.00	Genetics		Biomedical Engineering		Industrial Design	
Food, Bioprocessing, and Nutrition Sciences \$348,700.09	Agricultural & Extension Education	\$139,237.00	Molecular & Structural Biochemistry	36	Communication	0	Materials Science & Engineering	69
	Architecture	\$105,000.00	Foreign Languages & Literatures	35	English	0	Statistics	61
Music \$318,254.09	Foreign Languages & Literatures	\$75,000.00	Environmental & Molecular Toxicology	33	Foreign Languages & Literatures	0	Landscape Architecture	51
Animal Science \$317,254.62	Management, Innovation & Entrepreneurship	\$53,000.00	Industrial Design	32	Graphic Design	0	Poultry Science	47
Management, Innovation & Entrepreneurship \$302,930.49	Adult & Higher Education	\$39,781.00	Plant Biology	31	History	0	Soil Science	46
Accounting \$291,298.42	Art + Design	\$0.00	Wood & Paper Science	30	Industrial Design	0	Plant Biology	29
Textile & Apparel Technology & Management \$290,901.17	res d'adampti	\$0.00	Textile Engineering, Chemistry & Science	27	Landscape Architecture	0	Entomology	6
Art + Design \$166,179.89	Biological Sciences	\$0.00	Sail Science	25	Management, Innovation & Entrepreneurship	0	Adult & Higher Education	0
Architecture \$77,830.12	-	\$0.00	Poultry Science	20	Music	0	Educational Leadership & Policy Studies	0
Landscape Architecture \$77,830.12	Biological Sciences	\$0.00	Art + Design	17	Philosophy & Religion	0	Genetics	0
Graphic Design \$67,096.83	Biological Sciences Communication	\$0.00	Graphic Design	14	Social Work	0	Plant Pathology	0
Industrial Design \$63,426.39	Biological Sciences Communication Educational Leadership & Policy Studies Graphic Design	30.00	Management, Innovation & Entrepreneurship	0	Textile & Apparel Technology & Management	0	Environmental & Molecular Toxicology	0
Parks, Recreation & Tourism Management \$30,899.33	Biological Sciences Communication Educational Leadership & Policy Studies Graphic Design Industrial Design	\$0.00	Music	0	Textile Engineering, Chemistry & Science	0	Management, Innovation & Entrepreneurship	0
Parks, Hecreation & Tourism Management \$30,899.33 Wood & Paper Science \$22,890.22	Biological Sciences Communication Educational Leadership & Policy Studies Graphic Design	\$0.00		0	rexite Engineering, Chemistry & Science	0	management, intovation & Entrepreneurship	· ·

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dept name	total exp		grant dollars		grad enroll		phd awarded		undergr er
mical & Biomolecular Engineering \$	1,737,986.56	Physics	\$7,313,135.00	Electrical & Computer Engineering	545	Electrical & Computer Engineering	28	Business Management	1882
mistry \$	1,640,984.66	Marine, Earth and Atmospheric Sciences	\$5,919,939.00	Computer Science	476	Statistics	22	Biological Sciences	1823
hematics, Science & Technology Education \$	1,252,500.57	Mechanical & Aerospace Engineering	\$5,692,399.00	Business Management	344	Civil, Construction & Environmental Engineering	18	Mechanical & Aerospace Engineering	1377
sics \$	1,244,153.67	Crop Science	\$5,136,074.00	Curriculum and Instruction	327	Computer Science	16	Civil, Construction & Environmental Engineering	931
nedical Engineering \$	1,196,881.42	Mathematics	\$5,043,085.00	Educational Leadership & Policy Studies	282	Chemical & Biomolecular Engineering	14	Electrical & Computer Engineering	921
Calana	1110.001.75	Computer Science	\$4,495,080.00	Civil, Construction & Environmental Engineering	247	Mathematics	14	Communication	781
etics \$	1,017,435.43	hemistry	\$4,259,454.00	Adult & Higher Education	234	Mechanical & Aerospace Engineering	14	Psychology	664
erials Science & Engineering \$	1,011,691.77	aterials Science & Engineering	\$4,244,942.00	Mechanical & Aerospace Engineering	234	Adult & Higher Education	13	Animal Science	611
, Construction & Environmental Engineering \$	970,604.00		\$4,106,872.00	Mathematics	179	Physics	13	Parks, Recreation & Tourism Management	609
	961,775.84		\$4,049,076,00	Public & International Affairs	165	Chemistry	12	Public & International Affairs	589
	930,566.84		\$4,026,122.00	Statistics	154	Crop Science	11	Computer Science	596
	925 846 53		\$3,871,361.00	English	152	Curriculum and Instruction	11	Textile & Apparel Technology & Management	595
hology			\$3,664,105.00	Chemistry	122	Psychology	11	Accounting	429
			\$2,887,068.00	Industrial & Systems Engineering	121	Materials Science & Engineering	9	Sociology and Anthropology HASS	421
			\$2,774,027,00	Psychology	117	Industrial & Systems Engineering	7	Molecular & Structural Biochemistry	413
			\$2,740,953.00	Forestry & Environmental Resources	116	Mathematics, Science & Technology Education	7	English	399
			\$2,690,159.00	Physics Physics	110	Educational Leadership & Policy Studies	6	Mathematics, Science & Technology Education	367
storogy & International Affairs			\$2,450,497.00	Chemical & Biomolecular Engineering	109	Genetics	6	Chemical & Biomolecular Engineering	363
					109		6		363
anical & Aerospace Engineering	,		\$2,396,561.00	Economics		Food, Bioprocessing, and Nutrition Sciences	5	Forestry & Environmental Resources	
y			\$2,372,044.00	Mathematics, Science & Technology Education	104	Forestry & Environmental Resources	5	Agricultural & Resource Economics	337
ical & Agricultural Engineering \$			\$2,322,456.00	Marine, Earth and Atmospheric Sciences	98	Horticultural Science	5	History	335
altural & Resource Economics			\$2,187,457.00	Accounting	95	Nuclear Engineering	5	Chemistry	298
ogy and Anthropology HASS \$	31.52	Molecular & Structural Biochemistry	\$2,183,554.00	Architecture	86	Plant Biology	5	Biomedical Engineering	275
		_	,204.00	Biomedical Engineering	75	Entomology	4	Crop Science	240
			,654.00	Agricultural & Extension Education	74	Environmental & Molecular Toxicology	4	Marine, Earth and Atmospheric Sciences	228
Genetics			,842.00	Biological Sciences	72	Molecular & Structural Biochemistry	4	Horticultural Science	225
		64 047 405 40	196.00	Food, Bioprocessing, and Nutrition Sciences	72	Parks, Recreation & Tourism Management	4	Mathematics	194
		\$1,017,435.43	,102.00	History	70	Plant Pathology	4	Industrial & Systems Engineering	160
S			342.00	Materials Science & Engineering	70	Agricultural & Resource Economics	3	Architecture	160
			,996.00	Microbiology	66	Biological & Agricultural Engineering	3	Textile Engineering, Chemistry & Science	159
			,895.00	Crop Science	63	Biological Sciences	3	Biological & Agricultural Engineering	151
•			.930.00	Parks, Recreation & Tourism Management	63	Economics	3	Foreign Languages & Literatures	147
	Materials Science &		.108.00	Social Work	61	Marine, Earth and Atmospheric Sciences	3	Microbiology	146
Materials Scien				Nuclear Engineering	57	Microbiology	3	Food, Bioprocessing, and Nutrition Sciences	145
		\$1,011,691.77	1,628,00	Agricultural & Resource Economics	55	Animal Science	2	Agricultural & Extension Education	144
Engineering		ψ1,011,001	.874.00	Landscape Architecture	54	Public & International Affairs	2	Nuclear Engineering	136
2.19.110011119			65.00	Sociology and Anthropology HASS	50	Sociology and Anthropology HASS	2	Curriculum and Instruction	131
y u			63.00	Animal Science	49	Soil Science	2	Physics	127
					48		1		
Civil, Construct	ion &		35.00	Biological & Agricultural Engineering	48	Business Management		Graphic Design	113
	ion a		90.00	Horticultural Science		Poultry Science	1	Wood & Paper Science	112
Environmental		\$970,604.00	97.00	Textile & Apparel Technology & Management	47	Accounting	0	Philosophy & Religion	99
		ψ070,004.00	88.00	Entomology	41	Agricultural & Extension Education	0	Social Work	94
Engineering			82.00	Plant Pathology	37	Architecture	0	Economics	86
Linginiconing	Linging		75.00	Communication	36	Art + Design	0	Art + Design	83
			55.00	Genetics	36	Biomedical Engineering	0	Industrial Design	77
			37.00	Molecular & Structural Biochemistry	36	Communication	0	Materials Science & Engineering	69
Electrical & Cor	mouto	r	00.00	Foreign Languages & Literatures	35	English	0	Statistics	61
	iiputei	\$961,775.84	0.00	Environmental & Molecular Toxicology	33	Foreign Languages & Literatures	0	Landscape Architecture	51
Engineering		φ901,773.04	0.00	Industrial Design	32	Graphic Design	0	Poultry Science	47
, Engineering			1.00	Plant Biology	31	History	0	Sail Science	46
				Wood & Paper Science	30	Industrial Design	0	Plant Biology	29
				Textile Engineering, Chemistry & Science	27	Landscape Architecture	0	Entomology	6
				Soil Science	25	Management, Innovation & Entrepreneurship	0	Adult & Higher Education	0
				Poultry Science	20	Music	0	Educational Leadership & Policy Studies	0
Computer Color		6000 ECC 04		Art + Design	17	Philosophy & Religion	0	Genetics	0
Computer Scien	nce	\$930,566.84		Graphic Design	14	Social Work	0	Plant Pathology	0
				Management, Innovation & Entrepreneurship	0	Textile & Apparel Technology & Management	0	Environmental & Molecular Toxicology	0
tri				mangement, intovation & Entrepreneursrip		round a Apparer recirculagy a management		Emission a workular Tollodogy	U
				Music	0	Textile Engineering, Chemistry & Science	0	Management, Innovation & Entrepreneurship	0

Outcomes

Outcomes

 Enable deliberate, data-driven decision making across a number of factors

 Reveal cumulative effects of small and large decisions about expenditures on resources over time

Outcomes

 Test assumptions about how we should be using the library's resources

Start conversation about how we allocate resources

Other Considerations

Other Considerations

- How different academic units actually make use of the library and its resources
- Collecting areas important for their own sake
- Future utility of library collections
- The mapping has a significant effect on the numbers

Future Plans

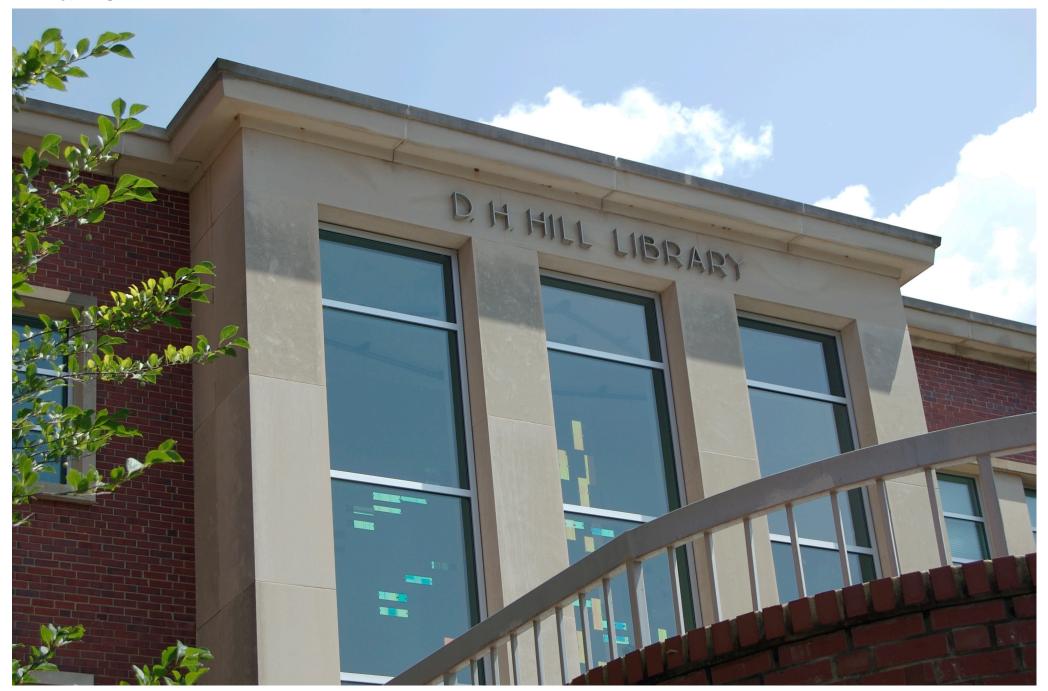
Future Plans

- Update database each academic year
- Expand to include additional institutional data, such as University expenditures by academic unit
- Use data to inform decisions about resource allocations

Future Plans

- Refine and release a production portal to interact with and explore the dataset
- Add additional and/or weighted fund to department mappings

Thanks!



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