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## PREFILLING U-MULTIRANK DATA FOR THE UNITED STATES

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U-Multirank is a multidimensional and inclusive ranking for higher education institutions (HEIs). To increase the coverage and therefore, the representativeness of the data, we use publicly available data sources to prefill the values for institutions. Publicly available sources are also used to cross-reference the information retrieved from institutions themselves. This document provides an overview of the sources found and reviewed, their use for cross-referencing and prefilling values for higher education institutions in the United States.

While we try to consult national experts to validate the data as much as possible, we recognise that available data and definitions can change over time and better sources emerge. Thus, we welcome your feedback in case you think that the approach used is not representative of your institution or country, or you are aware of alternative or better sources.

The publicly available data sources used for populating data for the US HEIs are:

- **IPEDS:** Integrated Postsecondary Education Data System
- The **World Bank:** exchange rate and PPP for revenue and expense data

### NATIONAL

Measurement level: Institutional level. Data aggregated at a higher level is not suitable for U-Multirank.

**IPEDS** (Integrated Postsecondary Education Data System) is a system of interrelated surveys conducted annually by the U.S. Department of Education's National Center for Education Statistics (NCES). It gathers information from all colleges, universities, and technical and vocational institutions that participate in the federal student financial aid programs.

IPEDS data covers eight areas of postsecondary education in the United States: institutional characteristics; institutional prices; admissions; enrollment; student financial aid; degrees and certificates conferred; student persistence and success; and academic libraries, institutional, and human, fiscal resources<sup>1</sup>. To learn more about IPEDS Survey components, visit <https://nces.ed.gov/ipeds/use-the-data/survey-components>.

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<sup>1</sup> IPEDS. (2019). About IPEDS. Retrieved from IPEDS: <https://nces.ed.gov/ipeds/about-ipeds>

Data obtained for U-Multirank:

- Institutional characteristics (e.g.name of the institution, public/private, contact person)
- Student data (e.g. enrollment, new entrants, graduate, international student data)
- Academic staff data (e.g. academic staff employed(FTE/HC), foreign and female staff employed)
- Financial data (e.g. revenue data, including external revenue sources and expense categories)

IPEDS data is available either as final or provisional data. Provisional release data have undergone NCES data quality control procedures and are imputed for nonresponding institutions. These data are released about one year after the initial data collection. Final release data contains revisions to the provisional release data made by institutions during the subsequent data collection year through the Prior Year Revision System. Final data are released about two years after the initial data collection<sup>2</sup>.

U-Multirank is based on a 3-year average with a two year time lag. Thus, U-Multirank 2020 will contain 2016-2018 data. To obtain sufficiently recent data and remain consistent across years, U-Multirank uses final data when available and provisional data for more recent years. Final data will be used for 2016 (2015-2016 ) while provisional data will be used for 2017(2016-2017) and 2018 (2017-2018 provisional data release can be expected in December 2019 <sup>3</sup>). Since 2018 data is released after the data collection cycle has started, higher education institutions are invited to complete the 2018 data themselves.

## INTERNATIONAL SOURCES

Measurement level: Institutional level except exchange rate and PPP, which is required on a country level.

(the) **World Bank** provides financial and technical assistance to developing countries. At the World Bank, the Development Data Group coordinates statistical and data work and maintains a number of macro, financial and sector databases. The World Bank's data bank contains a large array of publicly available data<sup>4</sup>, including exchange rate and PPP data.

Data obtained:

- Data on exchange rates and PPP rates to converts and compare revenue and expense data.

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<sup>2</sup> IPEDS. (2019). IPEDS Access Databases. Retrieved from IPEDS: <https://nces.ed.gov/ipeds/use-the-data/download-access-database>

<sup>3</sup> IPEDS. (2019). Data Collection & Release procedures. Retrieved from IPEDS: [https://nces.ed.gov/ipeds/resource/download/IPEDS\\_DataReleaseProcedures.pdf](https://nces.ed.gov/ipeds/resource/download/IPEDS_DataReleaseProcedures.pdf)

<sup>4</sup> World Bank. (2019). The World Bank Data. Retrieved from the World Bank: <https://data.worldbank.org/about>

## APPENDIX

U-Multirank Question	Data element	Mapped element
<b>Q1: Name</b>	Legal name of the institution	<i>table:</i> HD2017 <i>variable:</i> INSTNM <i>source:</i> IPEDS 2017-2018 (provisional/final) <i>variable description:</i> Institution (entity) name
	English name to appear in U-Multirank	<i>table:</i> HD2017 <i>variable:</i> INSTNM <i>source:</i> IPEDS 2017-2018 (provisional/final) <i>variable description:</i> Institution (entity) name
<b>Q2: General characteristics</b>	Type of institution:	
	Public/ private character:	<i>table:</i> HD2017 <i>variable:</i> CONTROL <i>source:</i> IPEDS 2017-2018 (provisional/final) <i>variable description:</i> Control of institution
	Foundation year of current institution:	
	Availability of an institutional strategic plan for online learning	
<b>Q3: Contact</b>	Contact person first name:	
	Contact person last name:	<i>table:</i> HD2017 <i>variable:</i> CHFNM <i>source:</i> IPEDS 2017-2018 (provisional/final) <i>variable description:</i> Name of chief administrator
	Position /Unit:	<i>table:</i> HD2017 <i>variable:</i> CHFTITLE <i>source:</i> IPEDS 2017-2018 (provisional/final) <i>variable description:</i> Title of chief administrator

U-Multirank Question	Data element	Mapped element
	Phone:	
	E-mail	
<b>Q4: Programs</b>	Short degree	<p><i>table:</i> C2017DEP  <i>variable:</i> PASSOC, UNITID, CIPCODE  <i>function:</i> PASSOC summed on UNITID to aggregate programs displayed by CIPCODE  <i>source:</i> IPEDS 2017-2018 (provisional/final)  <i>variable description:</i></p> <ul style="list-style-type: none"> <li>• PASSOC: Number of Associate's degree programs offered</li> <li>• UNITID: Unique identification number of the institution</li> <li>• CIPCODE: A six-digit code that identifies instructional program specialties within educational institutions.</li> </ul>
	Short degree online	<p><i>table:</i> C2017DEP  <i>variable:</i> PASSOCDE, UNITID, CIPCODE  <i>function:</i> PASSOCDE summed on UNITID to aggregate programs displayed by CIPCODE  <i>source:</i> IPEDS 2017-2018 (provisional/final)  <i>variable description:</i></p> <ul style="list-style-type: none"> <li>• PASSOCDE: Number of Associate's degree programs offered via distance education</li> <li>• UNITID: Unique identification number of the institution</li> <li>• CIPCODE: A six-digit code that identifies instructional program specialties within educational institutions.</li> </ul>
	Bachelor	<p><i>table:</i> C2017DEP  <i>variable:</i> PBACHL, UNITID, CIPCODE  <i>function:</i> PBACHL summed on UNITID to aggregate programs displayed by CIPCODE  <i>source:</i> IPEDS 2017-2018 (provisional/final)  <i>variable description:</i></p> <ul style="list-style-type: none"> <li>• PBACHL: Number of Bachelor's degree programs offered</li> <li>• UNITID: Unique identification number of the institution</li> <li>• CIPCODE: A six-digit code that identifies instructional program specialties within educational institutions.</li> </ul>
	Bachelor online	<p><i>table:</i> C2017DEP</p>

U-Multirank Question	Data element	Mapped element
		<p><i>variable:</i> PBACHLDE, UNITID, CIPCODE  <i>function:</i> PBACHLDE summed on UNITID to aggregate programs displayed by CIPCODE  <i>source:</i> IPEDS 2017-2018 (provisional/final)  <i>variable description:</i></p> <ul style="list-style-type: none"> <li>• PBACHLDE: Number of Bachelor's degree programs offered via distance education</li> <li>• UNITID: Unique identification number of the institution</li> <li>• CIPCODE: A six-digit code that identifies instructional program specialities within educational institutions.</li> </ul>
	Bachelor part-time	
	Master	<p><i>table:</i> C2017DEP  <i>variable:</i> PMASTR, UNITID, CIPCODE  <i>function:</i> PMASTR summed on UNITID to aggregate programs displayed by CIPCODE  <i>source:</i> IPEDS 2017-2018 (provisional/final)  <i>variable description:</i></p> <ul style="list-style-type: none"> <li>• PMASTR: Number of Master's degree programs offered via distance education</li> <li>• UNITID: Unique identification number of the institution</li> <li>• CIPCODE: A six-digit code that identifies instructional program specialities within educational institutions.</li> </ul>
	Master online	<p><i>table:</i> C2017DEP  <i>variable:</i> PMASTRDE, UNITID, CIPCODE  <i>function:</i> PMASTRDE summed on UNITID to aggregate programs displayed by CIPCODE  <i>source:</i> IPEDS 2017-2018 (provisional/final)  <i>variable description:</i></p> <ul style="list-style-type: none"> <li>• PMASTRDE: Number of Master's degree programs offered via distance education</li> <li>• UNITID: Unique identification number of the institution</li> <li>• CIPCODE: A six-digit code that identifies instructional program specialities within educational institutions.</li> </ul>
	Master Part-time	
	Long first degree	
	Doctorate/PhD	<p><i>table:</i> C2017DEP  <i>variable:</i> PDOCRS, UNITID, CIPCODE</p>

U-Multirank Question	Data element	Mapped element
		<p><i>function:</i> PDOCRS summed on UNITID to aggregate programs displayed by CIPCODE  <i>source:</i> IPEDS 2017-2018 (provisional/final)  <i>variable description:</i></p> <ul style="list-style-type: none"> <li>• PDOCRS: Number of Doctor's degree-research/scholarship programs offered</li> <li>• UNITID: Unique identification number of the institution</li> <li>• CIPCODE: A six-digit code that identifies instructional program specialties within educational institutions.</li> </ul>
	Doctorate/PhD online	<p><i>table:</i> C2017DEP  <i>variable:</i> PDOCRSDE, UNITID, CIPCODE  <i>function:</i> PDOCRSDE summed on UNITID to aggregate programs displayed by CIPCODE  <i>source:</i> IPEDS 2017-2018 (provisional/final)  <i>variable description:</i></p> <ul style="list-style-type: none"> <li>• PDOCRSDE: Number of Doctor's degree-research/scholarship programs offered via distance education</li> <li>• UNITID: Unique identification number of the institution</li> <li>• CIPCODE: A six-digit code that identifies instructional program specialties within educational institutions.</li> </ul>
<b>Q5: Students</b>	Students enrolled	<p><i>table:</i> EFFY2018, EFFY2017, EFFY2016  <i>variable:</i> EPHYTOTLT, UNITID, EFFYLEV  <i>function:</i> EPHYTOTLT summed on UNITID to aggregate programs displayed by EFFYLEV  <i>source:</i> IPEDS 2018-2019 (provisional), IPEDS 2017-2018 (provisional/final), IPEDS 2017-2016 (final)  <i>variable description:</i></p> <ul style="list-style-type: none"> <li>• EPHYTOTLT: Grand total men and women enrolled for credit during the 12-month reporting period.</li> <li>• UNITID: Unique identification number of the institution</li> <li>• EFFYLEV: Level of study</li> </ul>
	Female students enrolled	<p><i>table:</i> EFFY2018, EFFY2017, EFFY2016  <i>variable:</i> EPHYTOTLW, UNITID, EFFYLEV  <i>function:</i> EPHYTOTLW summed on UNITID to aggregate programs displayed by EFFYLEV  <i>source:</i> IPEDS 2018-2019 (provisional), IPEDS 2017-2018 (provisional/final), IPEDS 2017-2016 (final)  <i>variable description:</i></p> <ul style="list-style-type: none"> <li>• EPHYTOTLW: Grand total women enrolled for credit during the 12-month reporting period.</li> </ul>

U-Multirank Question	Data element	Mapped element
		<ul style="list-style-type: none"> <li>• UNITID: Unique identification number of the institution</li> <li>• EFFYLEV: Level of study</li> </ul>
<b>Q6: International students</b>	Foreign degree seeking students	<p><i>table:</i> EFFY2018, EFFY2017, EFFY2016  <i>variable:</i> EFYNRALT, UNITID, EFFYLEV  <i>function:</i> EFYNRALT summed on UNITID to aggregate programs displayed by EFFYLEV  <i>source:</i> IPEDS 2018-2019 (provisional), IPEDS 2017-2018 (provisional/final), IPEDS 2017-2016 (final)  <i>variable description:</i></p> <ul style="list-style-type: none"> <li>• EFYNRALT: Nonresident Alien men and women enrolled for credit during the 12-month reporting period</li> <li>• UNITID: Unique identification number of the institution</li> <li>• EFFYLEV: Level of study</li> </ul>
	Incoming students in international exchange programmes	
	Students sent out in international exchange programs	
	Students in international joint degree programmes	
<b>Q7: New entrants</b>	New entrants enrolled in 1st year bachelor programmes	<p><i>table:</i> EF2018C, EF2017C, EF2016C, EF2015C, EF2014C, EF2013C  <i>variable:</i> EFRES01, UNITID, EFCSTATE  <i>function:</i> EFRES01 summed on UNITID to aggregate programs displayed by EFCSTATE  <i>source:</i> IPEDS 2018-2019 (provisional), IPEDS 2017-2018 (provisional/final), IPEDS 2017-2016 (final), IPEDS 2016-2015 (provisional), IPEDS 2015-2014 (provisional/final), IPEDS 2014-2013 (final),  <i>variable description:</i></p> <ul style="list-style-type: none"> <li>• EFRES01: First-time degree/certificate-seeking undergraduate students</li> <li>• UNITID: Unique identification number of the institution</li> <li>• EFCSTATE: State of residence when student was first admitted</li> </ul>
	Transfer into bachelor 2nd year	

U-Multirank Question	Data element	Mapped element
	Transfer into bachelor 3rd year	
	New entrants enrolled in 1st year bachelor parttime programmes	
	New entrants enrolled in 1st year master programmes	
	Transfer into master 2nd year	
	New entrants enrolled in 1st year master parttime programmes	
	Percentage of new entrants in bachelor programmes coming from the institution's region	<p><i>table:</i> EF2018C  <i>variable:</i> UNITID, EFCSTATE  <i>function:</i> EFRES01 summed on UNITID to aggregate programs displayed by EFCSTATE  <i>source:</i> IPEDS 2018-2019 (provisional)  <i>variable description:</i></p> <ul style="list-style-type: none"> <li>• EFRES01: First-time degree/certificate-seeking undergraduate students</li> <li>• UNITID: Unique identification number of the institution</li> <li>• EFCSTATE: State of residence when student was first admitted</li> </ul> <p><i>table:</i> HD2018  <i>variable:</i> UNITID, FIPS  <i>function:</i> link tables EF2018C and HD2018 on UNITID, EFCSTATE and FIPS  <i>source:</i> IPEDS 2018-2019 (provisional)  <i>variable description:</i></p> <ul style="list-style-type: none"> <li>• EFRES01: First-time degree/certificate-seeking undergraduate students</li> <li>• UNITID: Unique identification number of the institution</li> <li>• FIPS: FIPS state code (minor adjustments for outlying areas)</li> </ul>



U-Multirank Question	Data element	Mapped element
	Region used	state
<b>Q8: Internships</b>	Students in interships	
	Students in interships in the institution's region	
	Students in interships abroad	
<b>Q9: Graduates</b>	Short degree	<p><i>table:</i> C2018C, C2017C, C2016C  <i>variable:</i> CSTOTLT, UNITID, AWLEVELC  <i>function:</i> CSTOTLT summed on UNITID by AWLEVELC(Associate's degree=3)  <i>source:</i> IPEDS 2018-2019 (provisional), IPEDS 2017-2018 (provisional/final), IPEDS 2017-2016 (final)  <i>variable description:</i></p> <ul style="list-style-type: none"> <li>• CSTOTLT: Number of students receiving awards/degrees conferred between July 1, 2016 and June 30, 2016</li> <li>• UNITID: Unique identification number of the institution</li> <li>• AWLEVELC: Award level code available for seven levels, code for associate degree level=3</li> </ul>
	Bachelor	<p><i>table:</i> C2018C, C2017C, C2016C  <i>variable:</i> CSTOTLT, UNITID, AWLEVELC  <i>function:</i> CSTOTLT summed on UNITID by AWLEVELC(Bachelor's degree=5)  <i>source:</i> IPEDS 2018-2019 (provisional), IPEDS 2017-2018 (provisional/final), IPEDS 2017-2016 (final)  <i>variable description:</i></p> <ul style="list-style-type: none"> <li>• CSTOTLT: Number of students receiving awards/degrees conferred between July 1, 2016 and June 30, 2017(for 2017 data set AV)</li> <li>• UNITID: Unique identification number of the institution</li> <li>• AWLEVELC: Award level code available for seven levels, code for Bachelor's degree level=5</li> </ul>
	Bachelor part-time	
	Master	<p><i>table:</i> C2018C, C2017C, C2016C  <i>variable:</i> CSTOTLT, UNITID, AWLEVELC  <i>function:</i> CSTOTLT summed on UNITID by AWLEVELC(master's degree=7)  <i>source:</i> IPEDS 2018-2019 (provisional), IPEDS 2017-2018 (provisional/final), IPEDS 2017-2016 (final)  <i>variable description:</i></p>

U-Multirank Question	Data element	Mapped element
		<ul style="list-style-type: none"> <li>• CSTOTLT: Number of students receiving awards/degrees conferred between July 1, 2016 and June 30, 2017(for 2017 data set AV)</li> <li>• UNITID: Unique identification number of the institution</li> <li>• AWLEVELC: Award level code available for seven levels, code for Master's degree level=7</li> </ul>
	Master Part-time	
	Long first degree	
	Doctorate/Phd	<p><i>table:</i> C2018C, C2017C, C2016C  <i>variable:</i> CSTOTLT, UNITID, AWLEVELC  <i>function:</i> CSTOTLT summed on UNITID by AWLEVELC(doctoral degree=9)  <i>source:</i> IPEDS 2018-2019 (provisional), IPEDS 2017-2018 (provisional/final), IPEDS 2017-2016 (final)  <i>variable description:</i></p> <ul style="list-style-type: none"> <li>• CSTOTLT: Number of students receiving awards/degrees conferred between July 1, 2016 and June 30, 2017(for 2017 data set AV)</li> <li>• UNITID: Unique identification number of the institution</li> <li>• AWLEVELC: Award level code available for seven levels, code for doctoral degree level=9</li> </ul>
	Foreign doctorates	<p><i>table:</i> C2018C, C2017C, C2016C  <i>variable:</i> CSNRALT , UNITID, AWLEVELC  <i>function:</i> CSNRALT summed on UNITID by AWLEVELC(doctoral degree=9)  <i>source:</i> IPEDS 2018-2019 (provisional), IPEDS 2017-2018 (provisional/final), IPEDS 2017-2016 (final)  <i>variable description:</i></p> <ul style="list-style-type: none"> <li>• CSNRALT: Number of nonresident alien students men and women receiving awards/degrees conferred between July 1, 2016 and June 30, 2017. (for 2017 data set AV)</li> <li>• UNITID: Unique identification number of the institution</li> <li>• AWLEVELC: Award level code available for seven levels, code for doctoral degree level=9</li> </ul>
	Female doctorates	<p><i>table:</i> C2018C, C2017C, C2016C  <i>variable:</i> CSTOTLTW, UNITID, AWLEVELC  <i>function:</i> CSTOTLTW summed on UNITID by AWLEVELC(doctoral degree=9)  <i>source:</i> IPEDS 2018-2019 (provisional), IPEDS 2017-2018 (provisional/final), IPEDS 2017-2016 (final)  <i>variable description:</i></p> <ul style="list-style-type: none"> <li>• CSTOTLTW: Number of female students receiving awards/degrees conferred between July 1, 2016 and June 30, 2017(for 2017 data set AV)</li> </ul>

U-Multirank Question	Data element	Mapped element
		<ul style="list-style-type: none"> <li>• UNITID: Unique identification number of the institution</li> <li>• AWLEVELC: Award level code available for seven levels, code for doctoral degree level=9</li> </ul>
<b>Q10: Graduates by field</b>	Education	<p><i>table:</i> C2018A, C2017A, C2016A  <i>variable:</i> CSTOTLT, UNITID, CIPCODE  <i>function:</i> CTOTALT summed on UNITID by CIPCODE(education=13)  <i>source:</i> IPEDS 2018-2019 (provisional), IPEDS 2017-2018 (provisional/final), IPEDS 2017-2016 (final)  <i>variable description:</i></p> <ul style="list-style-type: none"> <li>• CTOTALT: Awards/degrees conferred between July 1, 2016 and June 30, 2017 to all recipients, across all race/ethnicities and both genders (for 2017 data set AV)</li> <li>• UNITID: Unique identification number of the institution</li> <li>• CIPCODE: Classification of instructional Program (CIP) code. A six-digit code in the form xx.xxxx that identifies instructional program specialties within educational institutions.</li> </ul>
	Humanities and arts	<p><i>table:</i> C2018A, C2017A, C2016A  <i>variable:</i> CSTOTLT, UNITID, CIPCODE  <i>function:</i> CTOTALT summed on UNITID by CIPCODE(Humanities &amp; arts=05;16;38;39;50;54)  <i>source:</i> IPEDS 2018-2019 (provisional), IPEDS 2017-2018 (provisional/final), IPEDS 2017-2016 (final)  <i>variable description:</i></p> <ul style="list-style-type: none"> <li>• CTOTALT: Awards/degrees conferred between July 1, 2016 and June 30, 2017 to all recipients, across all race/ethnicities and both genders (for 2017 data set AV)</li> <li>• UNITID: Unique identification number of the institution</li> <li>• CIPCODE: Classification of instructional Program (CIP) code. A six-digit code in the form xx.xxxx that identifies instructional program specialties within educational institutions.</li> </ul>
	Social sciences	<p><i>table:</i> C2018A, C2017A, C2016A  <i>variable:</i> CSTOTLT, UNITID, CIPCODE  <i>function:</i> CTOTALT summed on UNITID by CIPCODE(Social sciences =09;19;23;24;25;42;44;45)  <i>source:</i> IPEDS 2018-2019 (provisional), IPEDS 2017-2018 (provisional/final), IPEDS 2017-2016 (final)  <i>variable description:</i></p> <ul style="list-style-type: none"> <li>• CTOTALT: Awards/degrees conferred between July 1, 2016 and June 30, 2017 to all recipients, across all race/ethnicities and both genders (for 2017 data set AV)</li> <li>• UNITID: Unique identification number of the institution</li> </ul>

U-Multirank Question	Data element	Mapped element
		<ul style="list-style-type: none"> <li>CIPCODE: Classification of instructional Program (CIP) code. A six-digit code in the form xx.xxxx that identifies instructional program specialties within educational institutions.</li> </ul>
	Business and law	<p><i>table:</i> C2018A, C2017A, C2016A  <i>variable:</i> CSTOTLT, UNITID, CIPCODE  <i>function:</i> CTOTALT summed on UNITID by CIPCODE(Business &amp; Law=22,52)  <i>source:</i> IPEDS 2018-2019 (provisional), IPEDS 2017-2018 (provisional/final), IPEDS 2017-2016 (final)  <i>variable description:</i></p> <ul style="list-style-type: none"> <li>CTOTALT: Awards/degrees conferred between July 1, 2016 and June 30, 2017 to all recipients, across all race/ethnicities and both genders (for 2017 data set AV)</li> <li>UNITID: Unique identification number of the institution</li> <li>CIPCODE: Classification of instructional Program (CIP) code. A six-digit code in the form xx.xxxx that identifies instructional program specialties within educational institutions.</li> </ul>
	Natural science, mathematics and statistics	<p><i>table:</i> C2018A, C2017A, C2016A  <i>variable:</i> CSTOTLT, UNITID, CIPCODE  <i>function:</i> CTOTALT summed on UNITID by CIPCODE(Natural Sciences=26,27,40)  <i>source:</i> IPEDS 2018-2019 (provisional), IPEDS 2017-2018 (provisional/final), IPEDS 2017-2016 (final)  <i>variable description:</i></p> <ul style="list-style-type: none"> <li>CTOTALT: Awards/degrees conferred between July 1, 2016 and June 30, 2017 to all recipients, across all race/ethnicities and both genders (for 2017 data set AV)</li> <li>UNITID: Unique identification number of the institution</li> <li>CIPCODE: Classification of instructional Program (CIP) code. A six-digit code in the form xx.xxxx that identifies instructional program specialties within educational institutions.</li> </ul>
	Information and communication technologies	<p><i>table:</i> C2018A, C2017A, C2016A  <i>variable:</i> CSTOTLT, UNITID, CIPCODE  <i>function:</i> CTOTALT summed on UNITID by CIPCODE(ICT=11)  <i>source:</i> IPEDS 2018-2019 (provisional), IPEDS 2017-2018 (provisional/final), IPEDS 2017-2016 (final)  <i>variable description:</i></p> <ul style="list-style-type: none"> <li>CTOTALT: Awards/degrees conferred between July 1, 2016 and June 30, 2017 to all recipients, across all race/ethnicities and both genders (for 2017 data set AV)</li> <li>UNITID: Unique identification number of the institution</li> </ul>

U-Multirank Question	Data element	Mapped element
		<ul style="list-style-type: none"> <li>• CIPCODE: Classification of instructional Program (CIP) code. A six-digit code in the form xx.xxxx that identifies instructional program specialties within educational institutions.</li> </ul>
	Engineering, manufacturing and construction	<p><i>table:</i> C2018A, C2017A, C2016A  <i>variable:</i> CSTOTLT, UNITID, CIPCODE  <i>function:</i> CTOTALT summed on UNITID by CIPCODE(Engineering, manufacturing and construction =04;10;14;15;41;46,47;48;49)  <i>source:</i> IPEDS 2018-2019 (provisional), IPEDS 2017-2018 (provisional/final), IPEDS 2017-2016 (final)  <i>variable description:</i></p> <ul style="list-style-type: none"> <li>• CTOTALT: Awards/degrees conferred between July 1, 2016 and June 30, 2017 to all recipients, across all race/ethnicities and both genders (for 2017 data set AV)</li> <li>• UNITID: Unique identification number of the institution</li> <li>• CIPCODE: Classification of instructional Program (CIP) code. A six-digit code in the form xx.xxxx that identifies instructional program specialties within educational institutions.</li> </ul>
	Agriculture forestry, fisheries and veterinary	<p><i>table:</i> C2018A, C2017A, C2016A  <i>variable:</i> CSTOTLT, UNITID, CIPCODE  <i>function:</i> CTOTALT summed on UNITID by CIPCODE(Agriculture forestry, fisheries and veterinary =01;03)  <i>source:</i> IPEDS 2018-2019 (provisional), IPEDS 2017-2018 (provisional/final), IPEDS 2017-2016 (final)  <i>variable description:</i></p> <ul style="list-style-type: none"> <li>• CTOTALT: Awards/degrees conferred between July 1, 2016 and June 30, 2017 to all recipients, across all race/ethnicities and both genders (for 2017 data set AV)</li> <li>• UNITID: Unique identification number of the institution</li> <li>• CIPCODE: Classification of instructional Program (CIP) code. A six-digit code in the form xx.xxxx that identifies instructional program specialties within educational institutions.</li> </ul>

U-Multirank Question	Data element	Mapped element
	Health and social welfare	<p><i>table:</i> C2018A, C2017A, C2016A  <i>variable:</i> CSTOTLT, UNITID, CIPCODE  <i>function:</i> CTOTALT summed on UNITID by CIPCODE(Health and social welfare=51)  <i>source:</i> IPEDS 2018-2019 (provisional), IPEDS 2017-2018 (provisional/final), IPEDS 2017-2016 (final)  <i>variable description:</i></p> <ul style="list-style-type: none"> <li>• CTOTALT: Awards/degrees conferred between July 1, 2016 and June 30, 2017 to all recipients, across all race/ethnicities and both genders (for 2017 data set AV)</li> <li>• UNITID: Unique identification number of the institution</li> <li>• CIPCODE: Classification of instructional Program (CIP) code. A six-digit code in the form xx.xxxx that identifies instructional program specialties within educational institutions.</li> </ul>
	Services	<p><i>table:</i> C2018A, C2017A, C2016A  <i>variable:</i> CSTOTLT, UNITID, CIPCODE  <i>function:</i> CTOTALT summed on UNITID by CIPCODE (Services=12;29;31;43)  <i>source:</i> IPEDS 2018-2019 (provisional), IPEDS 2017-2018 (provisional/final), IPEDS 2017-2016 (final)  <i>variable description:</i></p> <ul style="list-style-type: none"> <li>• CTOTALT: Awards/degrees conferred between July 1, 2016 and June 30, 2017 to all recipients, across all race/ethnicities and both genders (for 2017 data set AV)</li> <li>• UNITID: Unique identification number of the institution</li> <li>• CIPCODE: Classification of instructional Program (CIP) code. A six-digit code in the form xx.xxxx that identifies instructional program specialties within educational institutions.</li> </ul>
<b>Q11: Graduates on time</b>	Bachelor	<p><i>table:</i> GR2018, GR2017, GR2016  <i>variable:</i> UNITID, GRTOTLT, GRATYPE  <i>function:</i> GRTOTLT selected on GRATYPE(BA or equiv. graduates within 4 years= 13) over GRTOTLT selected on GRATYPE (BA or equiv. adjusted cohort=8) multiplied by the student numbers from table C2018C/ C2017C/ C2016C, variable CSTOTLT for BA level indicated in AWLEVELC(filtered for Bachelor's degree level=5) and summed on UNITID.  <i>source:</i> IPEDS 2018-2019 (provisional), IPEDS 2017-2018 (provisional/final), IPEDS 2017-2016 (final)  <i>variable description:</i></p> <ul style="list-style-type: none"> <li>• GRTOTLT: Grand total (men and women) in cohort</li> <li>• GRATYPE: Cohort status - defines the graduation status of the cohort.</li> <li>• UNITID: Unique identification number of the institution</li> </ul>

U-Multirank Question	Data element	Mapped element
		<p><i>table:</i> C2018C, C2017C, C2016C</p> <p><i>variable:</i> CSTOTLT</p> <p><i>function:</i> GRTOTLT(BA or equiv. graduates within 4 years= 13) over GRTOTLT(BA or equiv. adjusted cohort=8) multiplied by the student numbers from table C2018C/ C2017C/ C2016C variable CSTOTLT summed on UNITID</p> <p><i>source:</i> IPEDS 2018-2019 (provisional), IPEDS 2017-2018 (provisional/final), IPEDS 2017-2016 (final)</p> <p><i>variable description:</i></p> <ul style="list-style-type: none"> <li>• CSTOTLT: Number of students receiving awards/degrees conferred between July 1, 2016 and June 30, 2016</li> <li>• AWLEVELC: Award level code available for seven levels, code for Bachelor's degree level=5</li> </ul>
	Bachelor part-time	
	Master	
	Master Part-time	
	Long first degree	
<b>Q12: Graduate unemployment</b>	Bachelor	
	Master	
	Long first degree	
	Reference period used	
<b>Q13: Graduates in region</b>	Bachelor	
	Master	
	Long first degree	
	Region used	
<b>Q14: Academic staff</b>	Academic staff in FTEs	Since FTE academic staff is not provided, an approximation is used: the number of full-time academic staff + on third of the number of part-time academic staff
	Academic staff head-count	<p><i>table:</i> S2018 OC, S2017 OC, S2016 OC</p> <p><i>variable:</i> CSTOTLT</p>

U-Multirank Question	Data element	Mapped element
		<p><i>function:</i> HRTOTLT by OCCUPCAT(filtered on codes 210,220,230) and FTPT (full-time and par-time) summed on UNITID</p> <p><i>source:</i> IPEDS 2018-2019 (provisional), IPEDS 2017-2018 (provisional/final), IPEDS 2017-2016 (final)</p> <p><i>variable description:</i></p> <ul style="list-style-type: none"> <li>• OCCUPCAT: Occupation category (Instructional staff, total=210, Research=220, Public service=230)</li> <li>• HRTOTLT: Grand total employed across all race/ethnicities and both genders.</li> <li>• FTPT: Full time or part time status(all=1, full-time=2, part-time=3, graduate assistants=4)</li> <li>• UNITID: Unique identification number of the institution</li> </ul>
	academic staff with foreign nationality	<p><i>table:</i> S2018 OC, S2017 OC, S2016 OC</p> <p><i>variable:</i> CSTOTLT</p> <p><i>function:</i> HRNRALT by OCCUPCAT(filetered on codes 210,220,230) and FTPT (full-time and par-time) summed on UNITID</p> <p><i>source:</i> IPEDS 2018-2019 (provisional), IPEDS 2017-2018 (provisional/final), IPEDS 2017-2016 (final)</p> <p><i>variable description:</i></p> <ul style="list-style-type: none"> <li>• OCCUPCAT: Occupation category (Instructional staff, total=210, Research=220, Public service=230)</li> <li>• HRNRALT: Total nonresident alien employed</li> <li>• FTPT: Full time or part time status(all=1, full-time=2, part-time=3, graduate assistants=4)</li> <li>• UNITID: Unique identification number of the institution</li> </ul>
	female academic staff	<p><i>table:</i> S2018 OC, S2017 OC, S2016 OC</p> <p><i>variable:</i> CSTOTLT</p> <p><i>function:</i> HRTOTLW by OCCUPCAT(filetered on codes 210,220,230) and FTPT (full-time and par-time) summed on UNITID</p> <p><i>source:</i> IPEDS 2018-2019 (provisional), IPEDS 2017-2018 (provisional/final), IPEDS 2017-2016 (final)</p> <p><i>variable description:</i></p> <ul style="list-style-type: none"> <li>• OCCUPCAT: Occupation category (Instructional staff, total=210, Research=220, Public service=230)</li> <li>• HRTOTLW: Total women employed</li> <li>• FTPT: Full time or part time status(all=1, full-time=2, part-time=3, graduate assistants=4)</li> <li>• UNITID: Unique identification number of the institution</li> </ul>



U-Multirank Question	Data element	Mapped element
	Status of doctoral candidates	
	Doctoral candidates counted as academic staff in FTEs	
	Doctoral candidates counted as academic staff in headcount	
	Doctoral candidates with foreign nationality	
	Female doctoral candidates	
<b>Q15: Post-docs</b>	Post docs (head-count)	
<b>Q16: Currency and Unit</b>	Currency	
<b>Q17: Revenues</b>	Unit	\$1
	Total revenues	<p><i>table:</i> F1718_F1A(fiscal year 2018), F1617_F1A(fiscal year 2017), F1516_F1A(fiscal year 2016);  <i>table description:</i> Public institutions - GASB 34/35;  <i>variable:</i> F1B25  <i>function:</i> F1B25 summed on UNITID  <i>source:</i> IPEDS 2018-2019 (provisional), IPEDS 2017-2018 (provisional/final), IPEDS 2017-2016 (final)  <i>variable description:</i></p> <ul style="list-style-type: none"> <li>• F1B25: Total all revenues and other additions (Public institutions - GASB 34/35)</li> <li>• UNITID: Unique identification number of the institution</li> </ul> <p><i>table:</i> F1718_F2(fiscal year 2018), F1617_F2(fiscal year 2017), F1516_F2(fiscal year 2016)  <i>table description:</i> Private not-for-profit institutions or Public institutions using FASB  <i>variable:</i> F2B01  <i>function:</i> F2B01 summed on UNITID  <i>source:</i> IPEDS 2018-2019 (provisional), IPEDS 2017-2018 (provisional/final), IPEDS 2017-2016 (final)</p>

U-Multirank Question	Data element	Mapped element
		<p><i>variable description:</i></p> <ul style="list-style-type: none"> <li>• F2B01: Total revenues and investment return (Private not-for-profit institutions or Public institutions using FASB)</li> <li>• UNITID: Unique identification number of the institution</li> </ul> <p><i>table:</i> F1718_F3(fiscal year 2018), F1617_F3(fiscal year 2017), F1516_F3(fiscal year 2016)  <i>table description:</i> Private for-profit institutions  <i>variable:</i> F3B01  <i>function:</i> FF3B01 summed on UNITID  <i>source:</i> IPEDS 2018-2019 (provisional), IPEDS 2017-2018 (provisional/final), IPEDS 2017-2016 (final)</p> <p><i>variable description:</i></p> <ul style="list-style-type: none"> <li>• F3B01: Total all revenues and other additions (Private for-profit institutions)</li> <li>• UNITID: Unique identification number of the institution</li> </ul>
	Core budget	<p><i>table:</i> F1718_F1A(fiscal year 2018), F1617_F1A(fiscal year 2017), F1516_F1A(fiscal year 2016);  <i>table description:</i> Public institutions - GASB 34/35:  <i>variable:</i> F1B10; F1B11; F1B12  <i>function:</i> (F1B10 + F1B11+ F1B12) summed on UNITID  <i>source:</i> IPEDS 2018-2019 (provisional), IPEDS 2017-2018 (provisional/final), IPEDS 2017-2016 (final)</p> <p><i>variable description:</i></p> <ul style="list-style-type: none"> <li>• F1B10: Federal appropriations (Public institutions - GASB 34/35)</li> <li>• F1B11: State appropriations (Public institutions - GASB 34/35)</li> <li>• F1B12: Local appropriations, education district taxes, and similar support (Public institutions - GASB 34/35)</li> <li>• UNITID: Unique identification number of the institution</li> </ul> <p><i>table:</i> F1718_F2(fiscal year 2018), F1617_F2(fiscal year 2017), F1516_F2(fiscal year 2016)  <i>table description:</i> Private not-for-profit institutions or Public institutions using FASB  <i>variable:</i> F2D02; F2D03; F2D04  <i>function:</i> (F2D02 + F2D03 + F2D04) summed on UNITID  <i>source:</i> IPEDS 2018-2019 (provisional), IPEDS 2017-2018 (provisional/final), IPEDS 2017-2016 (final)</p>

U-Multirank Question	Data element	Mapped element
		<p><i>variable description:</i></p> <ul style="list-style-type: none"> <li>• F2D02: Federal appropriations - Total (Private not-for-profit institutions or Public institutions using FASB)</li> <li>• F2D03: State appropriations - Total (Private not-for-profit institutions or Public institutions using FASB)</li> <li>• F2D04: Local appropriations - Total (Private not-for-profit institutions or Public institutions using FASB)</li> <li>• UNITID: Unique identification number of the institution</li> </ul> <p><i>table:</i> F1718_F3(fiscal year 2018), F1617_F3(fiscal year 2017), F1516_F3(fiscal year 2016)  <i>table description:</i> Private for-profit institutions  <i>variable:</i> F3D02A; F3D03A; F3D03C  <i>function:</i> (F3D02A+ F3D03A+ F3D03C) summed on UNITID  <i>source:</i> IPEDS 2018-2019 (provisional), IPEDS 2017-2018 (provisional/final), IPEDS 2017-2016 (final)  <i>variable description:</i></p> <ul style="list-style-type: none"> <li>• F3D02A: Federal appropriations (Private for-profit institutions)</li> <li>• F3D03A: State appropriations (Private for-profit institutions)</li> <li>• F3D03C: Local government appropriations (Private for-profit institutions)</li> <li>• UNITID: Unique identification number of the institution</li> </ul>
	Tuition fees from students in degree programmes	<p><i>table:</i> F1718_F1A(fiscal year 2018), F1617_F1A(fiscal year 2017), F1516_F1A(fiscal year 2016);  <i>table description:</i> Public institutions - GASB 34/35:  <i>variable:</i> F1B01  <i>function:</i> F1B01 summed on UNITID  <i>source:</i> IPEDS 2018-2019 (provisional), IPEDS 2017-2018 (provisional/final), IPEDS 2017-2016 (final)  <i>variable description:</i></p> <ul style="list-style-type: none"> <li>• F1B01: Tuition and fees, after deducting discounts and allowances (Public institutions - GASB 34/35)</li> <li>• UNITID: Unique identification number of the institution</li> </ul>

U-Multirank Question	Data element	Mapped element
		<p><i>table:</i> F1718_F2(fiscal year 2018), F1617_F2(fiscal year 2017), F1516_F2(fiscal year 2016)  <i>table description:</i> Private not-for-profit institutions or Public institutions using FASB  <i>variable:</i> F2D01  <i>function:</i> F2D01 summed on UNITID  <i>source:</i> IPEDS 2018-2019 (provisional), IPEDS 2017-2018 (provisional/final), IPEDS 2017-2016 (final)  <i>variable description:</i></p> <ul style="list-style-type: none"> <li>• F2D01: Tuition and fees - Total (Private not-for-profit institutions or Public institutions using FASB)</li> <li>• UNITID: Unique identification number of the institution</li> </ul> <p><i>table:</i> F1718_F3(fiscal year 2018), F1617_F3(fiscal year 2017), F1516_F3(fiscal year 2016)  <i>table description:</i> Private for-profit institutions  <i>variable:</i> F3D01  <i>function:</i> F3D01 summed on UNITID  <i>source:</i> IPEDS 2018-2019 (provisional), IPEDS 2017-2018 (provisional/final), IPEDS 2017-2016 (final)  <i>variable description:</i></p> <ul style="list-style-type: none"> <li>• F3D01: Tuition and fees (Private for-profit institutions)</li> <li>• UNITID: Unique identification number of the institution</li> </ul>
	Fees from courses organised within the framework of continuing professional development (CPD)	
	External revenues from research	<p><i>Prefilling for public institutions is still under validation</i></p> <p><i>table:</i> F1718_F2(fiscal year 2018), F1617_F2(fiscal year 2017), F1516_F2(fiscal year 2016)  <i>table description:</i> Private not-for-profit institutions or Public institutions using FASB  <i>variable:</i> F2D05; F2D06; F2D07; F2D08  <i>function:</i> (F2D05+ F2D06+ F2D07+ F2D08) summed on UNITID  <i>source:</i> IPEDS 2018-2019 (provisional), IPEDS 2017-2018 (provisional/final), IPEDS 2017-2016 (final)  <i>variable description:</i></p>

U-Multirank Question	Data element	Mapped element
		<ul style="list-style-type: none"> <li>• F2D05: Federal grants and contracts - Total (Private not-for-profit institutions or Public institutions using FASB)</li> <li>• F2D06: State grants and contracts - Total (Private not-for-profit institutions or Public institutions using FASB)</li> <li>• F2D07: Local grants and contracts - Total (Private not-for-profit institutions or Public institutions using FASB)</li> <li>• F2D08: Private gifts, grants, and contracts - Total (Private not-for-profit institutions or Public institutions using FASB)</li> <li>• UNITID: Unique identification number of the institution</li> </ul> <p><i>table:</i> F1718_F3(fiscal year 2018), F1617_F3(fiscal year 2017), F1516_F3(fiscal year 2016)  <i>table description:</i> Private for-profit institutions  <i>variable:</i> F3D02B; F3D03B; F3D03D; F3D04  <i>function:</i> (F3D02B + F3D03B + F3D03D + F3D04) summed on UNITID  <i>source:</i> IPEDS 2018-2019 (provisional), IPEDS 2017-2018 (provisional/final), IPEDS 2017-2016 (final)  <i>variable description:</i></p> <ul style="list-style-type: none"> <li>• F3D02B: Federal grants and contracts (Private for-profit institutions)</li> <li>• F3D03B: State grants and contracts (Private for-profit institutions)</li> <li>• F3D03D: Local government and contracts (Private for-profit institutions)</li> <li>• F3D04: Private gifts, grants, and contracts (Private for-profit institutions)</li> <li>• UNITID: Unique identification number of the institution</li> </ul>
	external revenues from privately funded research contracts	<p><i>Prefilling for public institutions is still under validation</i></p> <p><i>table:</i> F1718_F2(fiscal year 2018), F1617_F2(fiscal year 2017), F1516_F2(fiscal year 2016)  <i>table description:</i> Private not-for-profit institutions or Public institutions using FASB  <i>variable:</i> F2D08  <i>function:</i> F2D08 summed on UNITID  <i>source:</i> IPEDS 2018-2019 (provisional), IPEDS 2017-2018 (provisional/final), IPEDS 2017-2016 (final)  <i>variable description:</i></p>

U-Multirank Question	Data element	Mapped element
		<ul style="list-style-type: none"> <li>• F2D08: Private gifts, grants, and contracts - Total (Private not-for-profit institutions or Public institutions using FASB)</li> <li>• UNITID: Unique identification number of the institution</li> </ul> <p><i>table:</i> F1718_F3(fiscal year 2018), F1617_F3(fiscal year 2017), F1516_F3(fiscal year 2016)  <i>table description:</i> Private for-profit institutions  <i>variable:</i> F3D04  <i>function:</i> F3D04 summed on UNITID  <i>source:</i> IPEDS 2018-2019 (provisional), IPEDS 2017-2018 (provisional/final), IPEDS 2017-2016 (final)  <i>variable description:</i></p> <ul style="list-style-type: none"> <li>• F3D04: Private gifts, grants, and contracts (Private for-profit institutions)</li> <li>• UNITID: Unique identification number of the institution</li> </ul>
	Revenues from licensing agreements, copyrighted products and royalties	
	Other revenues	
<b>Q18: Revenues by source</b>	Tuition fees from international sources as % of total tuition fee revenues	
	External research revenues: % from international sources	
	External research revenues: % from national sources	
	External research revenues: % from regional sources	

U-Multirank Question	Data element	Mapped element
Q19: Expenditure	Total expenditure	
	% on research	<p><i>table:</i> F1718_F1A(fiscal year 2018), F1617_F1A(fiscal year 2017), F1516_F1A(fiscal year 2016);  <i>table description:</i> Public institutions - GASB 34/35;  <i>variable:</i> F1C011; F1C021; F1C031  <i>function:</i> <math>F1C021 / (F1C011 + F1C021 + F1C031) * 100</math> summed on UNITID  <i>source:</i> IPEDS 2018-2019 (provisional), IPEDS 2017-2018 (provisional/final), IPEDS 2017-2016 (final)  <i>variable description:</i></p> <ul style="list-style-type: none"> <li>• F1C011: Instruction expenses, current year total (Public institutions - GASB 34/35)</li> <li>• F1C021: Research expenses, current year total (Public institutions - GASB 34/35)</li> <li>• F1C031: Public service expenses, current year total (Public institutions - GASB 34/35)</li> <li>• UNITID: Unique identification number of the institution</li> </ul> <p><i>table:</i> F1718_F2(fiscal year 2018), F1617_F2(fiscal year 2017), F1516_F2(fiscal year 2016)  <i>table description:</i> Private not-for-profit institutions or Public institutions using FASB  <i>variable:</i> F2E011; F2E021; F2E031  <i>function:</i> <math>F2E021 / (F2E011 + F2E021 + F2E031) * 100</math> summed on UNITID  <i>source:</i> IPEDS 2018-2019 (provisional), IPEDS 2017-2018 (provisional/final), IPEDS 2017-2016 (final)  <i>variable description:</i></p> <ul style="list-style-type: none"> <li>• F2E011: Instruction expenses, current year total (Private not-for-profit institutions or Public institutions using FASB)</li> <li>• F2E021: Research expenses, current year total (Private not-for-profit institutions or Public institutions using FASB)</li> <li>• F2E031: Public service expenses, current year total (Private not-for-profit institutions or Public institutions using FASB)</li> <li>• UNITID: Unique identification number of the institution</li> </ul> <p><i>table:</i> F1718_F3(fiscal year 2018), F1617_F3(fiscal year 2017), F1516_F3(fiscal year 2016)  <i>table description:</i> Private for-profit institutions</p>

U-Multirank Question	Data element	Mapped element
		<p><i>variable:</i> F3E011; F3E02A1; F3E02B1  <i>function:</i> <math>F3E02A1 / (F3E011 + F3E02A1 + F3E02B1) * 100</math> summed on UNITID  <i>source:</i> IPEDS 2018-2019 (provisional), IPEDS 2017-2018 (provisional/final), IPEDS 2017-2016 (final)  <i>variable description:</i></p> <ul style="list-style-type: none"> <li>• F3E011: Instruction expenses, current year total (Private for-profit institutions)</li> <li>• F3E02A1: Research expenses, current year total (Private for-profit institutions)</li> <li>• F3E02B1: Public service expenses, current year total (Private for-profit institutions)</li> <li>• UNITID: Unique identification number of the institution</li> </ul>
	% on teaching	<p><i>table:</i> F1718_F1A(fiscal year 2018), F1617_F1A(fiscal year 2017), F1516_F1A(fiscal year 2016);  <i>table description:</i> Public institutions - GASB 34/35:  <i>variable:</i> F1C011; F1C021; F1C031  <i>function:</i> <math>F1C011 / (F1C011 + F1C021 + F1C031) * 100</math> summed on UNITID  <i>source:</i> IPEDS 2018-2019 (provisional), IPEDS 2017-2018 (provisional/final), IPEDS 2017-2016 (final)  <i>variable description:</i></p> <ul style="list-style-type: none"> <li>• F1C011: Instruction expenses, current year total (Public institutions - GASB 34/35)</li> <li>• F1C021: Research expenses, current year total (Public institutions - GASB 34/35)</li> <li>• F1C031: Public service expenses, current year total (Public institutions - GASB 34/35)</li> <li>• UNITID: Unique identification number of the institution</li> </ul> <p><i>table:</i> F1718_F2(fiscal year 2018), F1617_F2(fiscal year 2017), F1516_F2(fiscal year 2016)  <i>table description:</i> Private not-for-profit institutions or Public institutions using FASB  <i>variable:</i> F2E011; F2E021; F2E031  <i>function:</i> <math>F2E011 / (F2E011 + F2E021 + F2E031) * 100</math> summed on UNITID  <i>source:</i> IPEDS 2018-2019 (provisional), IPEDS 2017-2018 (provisional/final), IPEDS 2017-2016 (final)  <i>variable description:</i></p> <ul style="list-style-type: none"> <li>• F2E011: Instruction expenses, current year total (Private not-for-profit institutions or Public institutions using FASB)</li> <li>• F2E021: Research expenses, current year total (Private not-for-profit institutions or Public institutions using FASB)</li> </ul>



U-Multirank Question	Data element	Mapped element
		<ul style="list-style-type: none"> <li>• F2E031: Public service expenses, current year total (Private not-for-profit institutions or Public institutions using FASB)</li> <li>• UNITID: Unique identification number of the institution</li> </ul> <p><i>table:</i> F1718_F3(fiscal year 2018), F1617_F3(fiscal year 2017), F1516_F3(fiscal year 2016)  <i>table description:</i> Private for-profit institutions  <i>variable:</i> F3E011; F3E02A1; F3E02B1  <i>function:</i> F3E011/( F3E011 + F3E02A1 + F3E02B1) *100 summed on UNITID  <i>source:</i> IPEDS 2018-2019 (provisional), IPEDS 2017-2018 (provisional/final), IPEDS 2017-2016 (final)  <i>variable description:</i></p> <ul style="list-style-type: none"> <li>• F3E011: Instruction expenses, current year total (Private for-profit institutions)</li> <li>• F3E02A1: Research expenses, current year total (Private for-profit institutions)</li> <li>• F3E02B1: Public service expenses, current year total (Private for-profit institutions)</li> <li>• UNITID: Unique identification number of the institution</li> </ul>
	% on knowledge transfer	<p><i>table:</i> F1718_F1A(fiscal year 2018), F1617_F1A(fiscal year 2017), F1516_F1A(fiscal year 2016);  <i>table description:</i> Public institutions - GASB 34/35:  <i>variable:</i> F1C011; F1C021; F1C031  <i>function:</i> F1C031/(F1C011 + F1C021 + F1C031)*100 summed on UNITID  <i>source:</i> IPEDS 2018-2019 (provisional), IPEDS 2017-2018 (provisional/final), IPEDS 2017-2016 (final)  <i>variable description:</i></p> <ul style="list-style-type: none"> <li>• F1C011: Instruction expenses, current year total (Public institutions - GASB 34/35)</li> <li>• F1C021: Research expenses, current year total (Public institutions - GASB 34/35)</li> <li>• F1C031: Public service expenses, current year total (Public institutions - GASB 34/35)</li> <li>• UNITID: Unique identification number of the institution</li> </ul> <p><i>table:</i> F1718_F2(fiscal year 2018), F1617_F2(fiscal year 2017), F1516_F2(fiscal year 2016)  <i>table description:</i> Private not-for-profit institutions or Public institutions using FASB  <i>variable:</i> F2E011; F2E021; F2E031  <i>function:</i> F2E031/(F2E011 + F2E021 + F2E031)*100 summed on UNITID</p>

U-Multirank Question	Data element	Mapped element
		<p><i>source:</i> IPEDS 2018-2019 (provisional), IPEDS 2017-2018 (provisional/final), IPEDS 2017-2016 (final)</p> <p><i>variable description:</i></p> <ul style="list-style-type: none"> <li>• F2E011: Instruction expenses, current year total (Private not-for-profit institutions or Public institutions using FASB)</li> <li>• F2E021: Research expenses, current year total (Private not-for-profit institutions or Public institutions using FASB)</li> <li>• F2E031: Public service expenses, current year total (Private not-for-profit institutions or Public institutions using FASB)</li> <li>• UNITID: Unique identification number of the institution</li> </ul> <p><i>table:</i> F1718_F3(fiscal year 2018), F1617_F3(fiscal year 2017), F1516_F3(fiscal year 2016)</p> <p><i>table description:</i> Private for-profit institutions</p> <p><i>variable:</i> F3E011; F3E02A1; F3E02B1</p> <p><i>function:</i> <math>F3E02B1 / (F3E011 + F3E02A1 + F3E02B1) * 100</math> summed on UNITID</p> <p><i>source:</i> IPEDS 2018-2019 (provisional), IPEDS 2017-2018 (provisional/final), IPEDS 2017-2016 (final)</p> <p><i>variable description:</i></p> <ul style="list-style-type: none"> <li>• F3E011: Instruction expenses, current year total (Private for-profit institutions)</li> <li>• F3E02A1: Research expenses, current year total (Private for-profit institutions)</li> <li>• F3E02B1: Public service expenses, current year total (Private for-profit institutions)</li> <li>• UNITID: Unique identification number of the institution</li> </ul>
	% on other activities	
<b>Q20: Research outputs</b>	Number of academic publications	
	Number of professional publications	
	Number of art-related research outputs	
<b>Q21: Graduate companies</b>	Number of graduate founded companies	

<b>U-Multirank Question</b>	<b>Data element</b>	<b>Mapped element</b>
<b>Q22: Spin-off companies</b>	Number of newly founded spin-off companies	
<b>Q23: Strategic partnerships</b>	Total number of strategic partnerships [?92]	
	With enterprises [?93]	
	...thereof with enterprises in the region	
	With organisations in the civil society [?94]	
	...thereof with organisations in the civil society in the region	

