PREFILLING U-MULTIRANK DATA FOR THE UNITED STATES

U-Multriank 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
- The **WHED** database, published by IAU: additional general characteristics

NATIONAL

<u>Measurement level:</u> 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[1]. To learn more about IPEDS Survey components, visit https://nces.ed.gov/Ipeds/use-the-data/survey-components.

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[1] 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[2].

U-Multirank is based on a 3-year average with a two year time lag. Thus, U-Multirank 2022 will contain 2018-2020 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 2018 (2017-2018) while provisional data will be used for 2019(2018-2019) and 2020 (2019-2020[3]).

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[4], 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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[2] IPEDS. (2022). IPEDS Access Databases. Retrieved from IPEDS: https://nces.ed.gov/ipeds/use-the-data/download-access-database

[3] IPEDS. (2022). Data Collection & Release procedures. Retrieved from IPEDS: https://nces.ed.gov/ipeds/resource/download/IPEDS_DataReleaseProcedures.pdf

[4] World Bank. (2022). The Wolrd Bank Data. Retrieved from the World Bank: https://data.worldbank.org/about

U-Multirank Question	Data element	Mapped element
Q1: Name	Legal name of the institution	*table:* HD2020 *variable:* INSTNM *source:* IPEDS 2019-2020 (provisional/final) *variable description:* Institution (entity) name
	English name to appear in U-Multirank	*table:* HD2020 *variable:* INSTNM *source:* IPEDS 2018-2020 (provisional/final) *variable description:* Institution (entity) name
Q2: General characteristics	Type of institution:	
	Public/ private character:	*table:* HD2020 *variable:* CONTROL *source:* IPEDS 2018-2020 (provisional/final) *variable description:* Control of institution
	Foundation year of current institution:	WHED, IAU
Q3: Contact		
	Contact person last name:	*table:* HD2017 *variable:* CHFNM *source:* IPEDS 2017-2018 (provisional/final) *variable description:* Name of chief administrator
	Position /Unit:	*table:* HD2017 *variable:* CHFTITLE *source:* IPEDS 2017-2018 (provisional/final) *variable description:* Title of chief administrator
	E-mail	Institutional website
Q4: Programs	Short degree	*table:* C2020DEP *variable:* PASSOC, UNITID, CIPCODE *function:* PASSOC summed on UNITID to aggregate programs displayed by CIPCODE

U-Multirank Question	Data element	Mapped element
		source: IPEDS 2019-2020 *variable description:* • PASSOC: Number of Associate's degree programs offered • UNITID: Unique identification number of the institution • CIPCODE: A six-digit code that identifies instructional program specialties within educational institutions.
	Short degree online	*table:* C2020DEP *variable:* PASSOCDE, UNITID, CIPCODE *function:* PASSOCDE summed on UNITID to aggregate programs displayed by CIPCODE *source:* IPEDS 2019-2020 *variable description:* • PASSOCDE: Number of Associate's degree programs offered via distance education • UNITID: Unique identification number of the institution • CIPCODE: A six-digit code that identifies instructional program specialties within educational institutions.
	Bachelor	*table:* C2020DEP *variable:* PBACHL, UNITID, CIPCODE *function:* PBACHL summed on UNITID to aggregate programs displayed by CIPCODE *source:* IPEDS 2019-2020 *variable description:* • PBACHL: Number of Bachelor's degree programs offered • UNITID: Unique identification number of the institution • CIPCODE: A six-digit code that identifies instructional program specialties within educational institutions.
	Bachelor online	*table:* C2020DEP *variable:* PBACHLDE, UNITID, CIPCODE *function:* PBACHLDE summed on UNITID to aggregate programs displayed by CIPCODE *source:* IPEDS 2019-2020 (provisional/final) *variable description:* • PBACHLDE: Number of Bachelor's degree programs offered via distance education

U-Multirank Question	Data element	Mapped element
		- UNITID: Unique identification number of the institution - CIPCODE: A six-digit code that identifies instructional program specialities within educational institutions.
	Master	*table:* C2020DEP *variable:* PMASTR, UNITID, CIPCODE *function:* PMASTR summed on UNITID to aggregate programs displayed by CIPCODE *source:* IPEDS 2019-2020 *variable description:* - PMASTR: Number of Master's degree programs offered via distance education - UNITID: Unique identification number of the institution - CIPCODE: A six-digit code that identifies instructional program specialities within educational institutions.
	Master online	*table:* C2020DEP *variable:* PMASTRDE, UNITID, CIPCODE *function:* PMASTRDE summed on UNITID to aggregate programs displayed by CIPCODE *source:* IPEDS 2019-2020 *variable description:* - PMASTRDE: Number of Master's degree programs offered via distance education - UNITID: Unique identification number of the institution - CIPCODE: A six-digit code that identifies instructional program specialities within educational institutions.
	Doctorate/PhD	*table:* C2020DEP *variable:* PDOCRS, UNITID, CIPCODE *function:* PDOCRS summed on UNITID to aggregate programs displayed by CIPCODE *source:* IPEDS 2019-2020 (provisional/final) *variable description:* - PDOCRS: Number of Doctor's degree-research/scholarship programs offered - UNITID: Unique identification number of the institution - CIPCODE: A six-digit code that identifies instructional program specialties within educational institutions.
	Doctorate/PhD online	*table:* C2020DEP

U-Multirank Question	Data element	Mapped element
		variable: PDOCRSDE, UNITID, CIPCODE *function:* PDOCRSDE summed on UNITID to aggregate programs displayed by CIPCODE *source:* IPEDS 2019-2020 *variable description:* • PDOCRSDE: Number of Doctor's degree-research/scholarship programs offered via distance education • UNITID: Unique identification number of the institution • CIPCODE: A six-digit code that identifies instructional program specialities within educational institutions.
Q5: Students	Students enrolled	*table:* EFFY2020, EFFY2019, EFFY2018 *variable:* EFYTOTLT, UNITID, EFFYLEV *function:* EFYTOTLT summed on UNITID to aggregate programs displayed by EFFYLEV *source:* IPEDS 2020-2021 (provisional), IPEDS 2019-2020 (provisional/final), IPEDS 2018-2019 (final) *variable description:* • EFYTOTLT: Grand total men and women enrolled for credit during the 12-month reporting period. • UNITID: Unique identification number of the institution • EFFYLEV: Level of study
	Female students enrolled	*table:* EFFY2020, EFFY2019, EFFY2018 *variable:* EFYTOTLW, UNITID, EFFYLEV *function:* EFYTOTLW summed on UNITID to aggregate programs displayed by EFFYLEV *source:* IPEDS 2020-2021 (provisional), IPEDS 2019-2020 (provisional/final), IPEDS 2018-2019 (final) *variable description:* • EFYTOTLW: Grand total women enrolled for credit during the 12-month reporting period. • UNITID: Unique identification number of the institution • EFFYLEV: Level of study
Q6: International students	Foreign degree seeking students	*table:* EFFY2020, EFFY2019, EFFY2018 *variable:* EFYNRALT, UNITID, EFFYLEV *function:* EFYNRALT summed on UNITID to aggregate programs displayed by EFFYLEV *source:* IPEDS 2020-2021 (provisional), IPEDS 2019-2020 (provisional/final), IPEDS 2018-2019 (final) *variable description:*

U-Multirank Question	Data element	Mapped element
		• EFYNRALT: Nonresident Alien men and women enrolled for credit during the 12-month reporting period • UNITID: Unique identification number of the institution • EFFYLEV: Level of study
Q7: New entrants	New entrants enrolled in 1st year bachelor programmes	*table:* EF2020C, EF2018C, EF2017C, EF2016C, EF2015C, EF2014C *variable:* EFRES01, UNITID, EFCSTATE *function:* EFRES01 summed on UNITID to aggregate programs displayed by EFCSTATE *source:* IPEDS 2020-2021 (provisional), IPEDS 2019-2020 (provisional/final), IPEDS 2018-2019 (final), IPEDS 2017-2018 (provisional), IPEDS 2016-2017 (provisional/final), IPEDS 2015-2016 (final), *variable description:* • EFRES01: First-time degree/certificate-seeking undergraduate students • UNITID: Unique identification number of the institution • EFCSTATE: State of residence when student was first admitted This cannot be used for calculating the graduation rate as it comprises short degree programmes and certificates. When using it for calculation, the graduation rates are for a number of HEIs over 100% and for a number below 10%. Including transfer-in students does lower the number of HEIs with graduation rate over 100, but still the result is not satisfactory.
	Percentage of new entrants in bachelor programmes coming from the institution's region	*table:* EF2020C *variable:* UNITID, EFCSTATE *function:* EFRES01 summed on UNITID to aggregate programs displayed by EFCSTATE *source:* IPEDS 2020-2021 (provisional) *variable description:* • EFRES01: First-time degree/certificate-seeking undergraduate students • UNITID: Unique identification number of the institution • EFCSTATE: State of residence when student was first admitted *table:* HD2020 *variable:* UNITID, FIPS *function:* link tables EF2020C and HD2020 on UNITID, EFCSTATE and FIPS *source:* IPEDS 2020-2021 (provisional) *variable description:*

U-Multirank Question	Data element	Mapped element
		• EFRES01: First-time degree/certificate-seeking undergraduate students • UNITID: Unique identification number of the institution • FIPS: FIPS state code (minor adjustments for outlying areas)
	Region used	State
Q9: Graduates	Short degree	*table:* C2020C, C2019C, C2018C *variable:* CSTOTLT, UNITID, AWLEVELC *function:* CSTOTLT summed on UNITID by AWLEVELC(Associate's degree=3) *source:* IPEDS 2019-2020 (provisional), IPEDS 2018-2019 (provisional/final), IPEDS 2017-2016 (final) *variable description:* • CSTOTLT: Number of students receiving awards/degrees conferred between July 1, 2018 and June 30, 2020 • UNITID: Unique identification number of the institution • AWLEVELC: Award level code available for seven levels, code for associate degree level=3
	Bachelor	*table:* C2020C, C2019C, C2018C *variable:* CSTOTLT, UNITID, AWLEVELC *function:* CSTOTLT summed on UNITID by AWLEVELC(Bachelor's degree=5) *source:* IPEDS 2019-2020 (provisional), IPEDS 2018-2019 (provisional/final), IPEDS 2017-2018 (final) *variable description:* • CSTOTLT: Number of students receiving awards/degrees conferred between July 1, 2018 and June 30, 2020 • UNITID: Unique identification number of the institution • AWLEVELC: Award level code available for seven levels, code for Bachelor's degree level=5
	Master	*table:* C2020C, C2019C, C2018C *variable:* CSTOTLT, UNITID, AWLEVELC *function:* CSTOTLT summed on UNITID by AWLEVELC(master's degree=7) *source:* IPEDS 2019-2020 (provisional), IPEDS 2018-2019 (provisional/final), IPEDS 2017-2018 (final) *variable description:* • CSTOTLT: Number of students receiving awards/degrees conferred between July 1, 2019 and June 30, 2020 • UNITID: Unique identification number of the institution

U-Multirank Question	Data element	Mapped element
		• AWLEVELC: Award level code available for seven levels, code for Master's degree level=7
	Doctorate/Phd	*table:* C2020C, C2019C, C2018C *variable:* CSTOTLT, UNITID, AWLEVELC *function:* CSTOTLT summed on UNITID by AWLEVELC(doctoral degree=9) *source:* IPEDS 2019-2020 (provisional), IPEDS 2018-2019 (provisional/final), IPEDS 2017-2018 (final) *variable description:* • CSTOTLT: Number of students receiving awards/degrees conferred between July 1, 2019 and June 30, 2020 • UNITID: Unique identification number of the institution • AWLEVELC: Award level code available for seven levels, code for doctoral degree level=9
	Foreign doctorates	*table:* C2020C, C2019C, C2018C *variable:* CSNRALT , UNITID, AWLEVELC *function:* CSNRALT summed on UNITID by AWLEVELC(doctoral degree=9) *source:* IPEDS 2019-2020 (provisional), IPEDS 2018-2019 (provisional/final), IPEDS 2017-2018 (final) *variable description:* • CSNRALT: Number of nonresident alien students men and women receiving awards/degrees conferred between July 1, 2019 and June 30, 2020. • UNITID: Unique identification number of the institution • AWLEVELC: Award level code available for seven levels, code for doctoral degree level=9
	Female doctorates	*table:* C2020C, C2019C, C2018C *variable:* CSTOTLTW, UNITID, AWLEVELC *function:* CSTOTLTW summed on UNITID by AWLEVELC(doctoral degree=9) *source:* IPEDS 2019-2020 (provisional), IPEDS 2018-2019 (provisional/final), IPEDS 2017-2018 (final) *variable description:* • CSTOTLTW: Number of female students receiving awards/degrees conferred between July 1, 2019 and June 30, 2020 • UNITID: Unique identification number of the institution • AWLEVELC: Award level code available for seven levels, code for doctoral degree level=9
Q10: Graduates by field	Education	*table:* C2020A, C2019A, C2018A *variable:* CSTOTLT, UNITID, CIPCODE *function:* CTOTALT summed on UNITID by CIPCODE(education=13)

U-Multirank Question	Data element	Mapped element
		source: IPEDS 2019-2020 (provisional), IPEDS 2018-2019 (provisional/final), IPEDS 2017-2018 (final) *variable description:* • CTOTALT: Awards/degrees conferred between July 1, 2019 and June 30, 2020 to all recipients, across all race/ethnicities and both genders. • UNITID: Unique identification number of the institution • CIPCODE: Classification of instructional Program (CIP) code. A six-digit code in the form xx.xxxx that identifies instructional program specialties within educational institutions.
	Humanities and arts	*table:* C2020A, C2019A, C2018A *variable:* CSTOTLT, UNITID, CIPCODE *function:* CTOTALT summed on UNITID by CIPCODE(Humanities &arts=05 OR 16 OR 38 OR 39 OR 50 OR 54) *source:* IPEDS 2019-2020 (provisional), IPEDS 2018-2019 (provisional/final), IPEDS 2017-2018 (final) *variable description:* • CTOTALT: Awards/degrees conferred between July 1, 2019 and June 30, 2020 to all recipients, across all race/ethnicities and both genders • UNITID: Unique identification number of the institution • CIPCODE: Classification of instructional Program (CIP) code. A six-digit code in the form xx.xxxx that identifies instructional program specialties within educational institutions.
	Social sciences	*table:* C2020A, C2019A, C2018A *variable:* CSTOTLT, UNITID, CIPCODE *function:* CTOTALT summed on UNITID by CIPCODE(Social sciences =09 OR 19 OR 23 OR 24 OR 25 OR 42 OR 44 OR 45) *source:* IPEDS 2019-2020 (provisional), IPEDS 2018-2019 (provisional/final), IPEDS 2017-2018 (final) *variable description:* • CTOTALT: Awards/degrees conferred between July 1, 2019 and June 30, 2020 to all recipients, across all race/ethnicities and both genders • UNITID: Unique identification number of the institution • CIPCODE: Classification of instructional Program (CIP) code. A six-digit code in the form xx.xxxx that identifies instructional program specialties within educational institutions.
	Business and law	*table:* C2020A, C2019A, C2018A

U-Multirank Question	Data element	Mapped element
		variable: CSTOTLT, UNITID, CIPCODE *function:* CTOTALT summed on UNITID by CIPCODE(Business & Law=22,52) *source:* IPEDS 2019-2020 (provisional), IPEDS 2018-2019 (provisional/final), IPEDS 2017-2018 (final) *variable description:* • CTOTALT: Awards/degrees conferred between July 1, 2019 and June 30, 2020 to all recipients, across all race/ethnicities and both genders • UNITID: Unique identification number of the institution • CIPCODE: Classification of instructional Program (CIP) code. A six-digit code in the form xx.xxxx that identifies instructional program specialties within educational institutions.
	Natural science, mathematics and statistics	*table:* C2020A, C2019A, C2018A *variable:* CSTOTLT, UNITID, CIPCODE *function:* CTOTALT summed on UNITID by CIPCODE(Natural Sciences=26,27,40) *source:* IPEDS 2019-2020 (provisional), IPEDS 2018-2019 (provisional/final), IPEDS 2017-2018 (final) *variable description:* • CTOTALT: Awards/degrees conferred between July 1, 2019 and June 30, 2020 to all recipients, across all race/ethnicities and both genders • UNITID: Unique identification number of the institution • CIPCODE: Classification of instructional Program (CIP) code. A six-digit code in the form xx.xxxx that identifies instructional program specialties within educational institutions.
	Information and communication technologies	*table:* C2020A, C2019A, C2018A *variable:* CSTOTLT, UNITID, CIPCODE *function:* CTOTALT summed on UNITID by CIPCODE(ICT=11) *source:* IPEDS 2019-2020 (provisional), IPEDS 2018-2019 (provisional/final), IPEDS 2017-2018 (final) *variable description:* • CTOTALT: Awards/degrees conferred between July 1, 2019 and June 30, 2020 to all recipients, across all race/ethnicities and both genders • UNITID: Unique identification number of the institution • CIPCODE: Classification of instructional Program (CIP) code. A six-digit code in the form xx.xxxx that identifies instructional program specialties within educational institutions.

U-Multirank Question	Data element	Mapped element
	Engineering, manufacturing and construction	*table:* C2020A, C2019A, C2018A *variable:* CSTOTLT, UNITID, CIPCODE *function:* CTOTALT summed on UNITID by CIPCODE(Engineering, manufacturing and construction =04 OR 10 OR 14 OR 15 OR 41 OR 46 OR 47 OR 48 OR 49) *source:* IPEDS 2019-2020 (provisional), IPEDS 2018-2019 (provisional/final), IPEDS 2017-2018 (final) *variable description:* • CTOTALT: Awards/degrees conferred between July 1, 2019 and June 30, 2020 to all recipients, across all race/ethnicities and both genders • UNITID: Unique identification number of the institution • CIPCODE: Classification of instructional Program (CIP) code. A six-digit code in the form xx.xxxx that identifies instructional program specialties within educational institutions.
	Agriculture forestry, fisheries and veterinary	*table:* C2020A, C2019A, C2018A *variable:* CSTOTLT, UNITID, CIPCODE *function:* CTOTALT summed on UNITID by CIPCODE(Agriculture forestry, fisheries and veterinary =01 OR 03) *source:* IPEDS 2019-2020 (provisional), IPEDS 2018-2019 (provisional/final), IPEDS 2017-2018 (final) *variable description:* • CTOTALT: Awards/degrees conferred between July 1, 2019 and June 30, 2020 to all recipients, across all race/ethnicities and both genders • UNITID: Unique identification number of the institution • CIPCODE: Classification of instructional Program (CIP) code. A six-digit code in the form xx.xxxx that identifies instructional program specialties within educational institutions.

U-Multirank Question	Data element	Mapped element

	Health and social welfare	*table:* C2020A, C2019A, C2018A
		variable: CSTOTLT, UNITID, CIPCODE
		function: CTOTALT summed on UNITID by CIPCODE(Health and social welfare=51)
		source: IPEDS 2019-2020 (provisional), IPEDS 2018-2019 (provisional/final), IPEDS 2017-2018 (final)
		variable description:
		  • CTOTALT: Awards/degrees conferred between July 1, 2019 and June 30, 2020 to all recipients, across all race/ethnicities and both genders
		  • UNITID: Unique identification number of the institution
		  • CIPCODE: Classification of instructional Program (CIP) code. A six-digit code in the form xx.xxxx that identifies instructional program specialties within educational institutions.

	Services	*table:* C2020A, C2019A, C2018A
		variable: CSTOTLT, UNITID, CIPCODE
		function: CTOTALT summed on UNITID by CIPCODE (Services=12 OR 29 OR 31 OR 43)
		source: IPEDS 2019-2020 (provisional), IPEDS 2018-2019 (provisional/final), IPEDS 2017-2018 (final)
		variable description:
		  • CTOTALT: Awards/degrees conferred between July 1, 2019 and June 30, 2020 to all recipients, across all race/ethnicities and both genders
		  • UNITID: Unique identification number of the institution
		  • CIPCODE: Classification of instructional Program (CIP) code. A six-digit code in the form xx.xxxx that identifies instructional program specialties within educational institutions.

Q11: Graduates on time	Bachelor	*table:* GR2020, GR2019, GR2018
		variable: UNITID, GRTOTLT, GRTYPE
		function: GRTOTLT selected on GRTYPE(BA or equiv. graduates within 4 years= 13) over GRTOTLT selected on GRTYPE (BA or equiv. adjusted cohort=8) multiplied by the student numbers from table C2020C/ C2019C/ C2018C, variable CSTOTLT for BA level indicated in AWLEVELC(filtered for Bachelor's degree level=5) and summed on UNITID.
		source: IPEDS 2019-2020 (provisional), IPEDS 2018-2019 (provisional/final), IPEDS 2017-2018 (final)
		variable description:
		  • GRTOTLT: Grand total (men and women) in cohort
		  • GRTYPE: Cohort status - defines the graduation status of the cohort.
		  • UNITID: Unique identification number of the institution

U-Multirank Question	Data element	Mapped element
		table: C2020C, C2019C, C2018C *variable:* CSTOTLT *function:* GRTOTLT(BA or equiv. graduates within 4 years= 13) over GRTOTLT(BA or equiv. adjusted cohort=8) multiplied by the student numbers from table C2020C/ C2019C/ C2018C variable CSTOTLT summed on UNITID *source:* IPEDS 2019-2020 (provisional), IPEDS 2018-2019 (provisional/final), IPEDS 2017-2018 (final) *variable description:* • CSTOTLT: Number of students receiving awards/degrees conferred between July 1, 2019 and June 30, 2020 • AWLEVELC: Award level code available for seven levels, code for Bachelor's degree level=5
Q14: Academic staff	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	*table:* S2020 OC, S2019 OC, S2018 OC *variable:* CSTOTLT *function:* HRTOTLT by OCCUPCAT(filtered on codes 210,220,230) and FTPT (full-time and par-time) summed on UNITID *source:* IPEDS 2019-2020 (provisional), IPEDS 2018-2019 (provisional/final), IPEDS 2017-2018 (final) *variable description:* • OCCUPCAT: Occupation category (Instructional staff, total=210, Research=220, Public service=230) • HRTOTLT: Grand total employed across all race/ethnicities and both genders. • FTPT: Full time or part time status(all=1, full-time=2, part-time=3, graduate assistants=4) • UNITID: Unique identification number of the institution
	academic staff with foreign nationality	*table:* S2020 OC, S2019 OC, S2018 OC *variable:* CSTOTLT *function:* HRNRALT by OCCUPCAT(filetered on codes 210,220,230) and FTPT (full-time and par-time) summed on UNITID *source:* IPEDS 2019-2020 (provisional), IPEDS 2018-2019 (provisional/final), IPEDS 2017-2018 (final) *variable description:*

U-Multirank Question	Data element	Mapped element
		• OCCUPCAT: Occupation category (Instructional staff, total=210, Research=220, Public service=230) • HRNRALT: Total nonresident alien employed • FTPT: Full time or part time status(all=1, full-time=2, part-time=3, graduate assistants=4) • UNITID: Unique identification number of the institution
	female academic staff	*table:* S2020 OC, S2019 OC, S2018 OC *variable:* CSTOTLT *function:* HRTOTLW by OCCUPCAT(filetered on codes 210,220,230) and FTPT (full-time and par-time) summed on UNITID *source:* IPEDS 2019-2020 (provisional), IPEDS 2018-2019 (provisional/final), IPEDS 2017-2018 (final) *variable description:* • OCCUPCAT: Occupation category (Instructional staff, total=210, Research=220, Public service=230) • HRTOTLW: Total women employed • FTPT: Full time or part time status(all=1, full-time=2, part-time=3, graduate assistants=4) • UNITID: Unique identification number of the institution
Q16: Currency and Unit	Currency	USD
Q17: Revenues	Unit	$1
	Total revenues	*table:* F1920_F1A(fiscal year 2020), F1819_F1A_REVISED(fiscal year 2019), F1718_F1A(fiscal year 2018) *table description:* Public institutions - GASB 34/35: *variable:* F1B25 *function:* F1B25 summed on UNITID *source:* IPEDS 2019-2020 (provisional), IPEDS 2018-2019 (provisional/final), IPEDS 2017-2018 (final) *variable description:* • F1B25: Total all revenues and other additions (Public institutions - GASB 34/35) • UNITID: Unique identification number of the institution *table:* F1920_F2(fiscal year 2020), F1819_F2_revised(fiscal year 2019), F1718_F2(fiscal year 2018) *table description:* Private not-for-profit institutions or Public institutions using FASB *variable:* F2B01

U-Multirank Question	Data element	Mapped element
		function: F2B01 summed on UNITID *source:* IPEDS 2019-2020 (provisional), IPEDS 2018-2019 (provisional/final), IPEDS 2017-2018 (final) *variable description:* • F2B01: Total revenues and investment return (Private not-for-profit institutions or Public institutions using FASB) • UNITID: Unique identification number of the institution *table:* F1920_F3(fiscal year 2020), F1819_F3_revised(fiscal year 2018), F1718_F3(fiscal year 2018) *table description:* Private for-profit institutions *variable:* F3B01 *function:* FF3B01 summed on UNITID *source:* IPEDS 2019-2020 (provisional), IPEDS 2018-2019 (provisional/final), IPEDS 2017-2018 (final) *variable description:* • F3B01: Total all revenues and other additions (Private for-profit institutions) • UNITID: Unique identification number of the institution
	Core budget	*table:* F1920_F1A(fiscal year 2020), F1819_F1A(fiscal year 2019), F1718_F1A(fiscal year 2018) *table description:* Public institutions - GASB 34/35: *variable:* F1B10; F1B11; F1B12 *function:* (F1B10 + F1B11+ F1B12) summed on UNITID *source:* IPEDS 2019-2020 (provisional), IPEDS 2018-2019 (provisional/final), IPEDS 2017-2018 (final) *variable description:* • F1B10: Federal appropriations (Public institutions - GASB 34/35) • F1B11: State appropriations (Public institutions - GASB 34/35) • F1B12: Local appropriations, education district taxes, and similar support (Public institutions - GASB 34/35) • UNITID: Unique identification number of the institution *table:* F1920_F2(fiscal year 2020), F1819_F2(fiscal year 2019), F1718_F2(fiscal year 2018) *table description:* Private not-for-profit institutions or Public institutions using FASB *variable:* F2D02; F2D03; F2D04

U-Multirank Question	Data element	Mapped element
		function: (F2D02 + F2D03 + F2D04) summed on UNITID *source:* IPEDS 2019-2020 (provisional), IPEDS 2018-2019 (provisional/final), IPEDS 2017-2018 (final) *variable description:* - F2D02: Federal appropriations - Total (Private not-for-profit institutions or Public institutions using FASB) - F2D03: State appropriations - Total (Private not-for-profit institutions or Public institutions using FASB) - F2D04: Local appropriations - Total (Private not-for-profit institutions or Public institutions using FASB) - UNITID: Unique identification number of the institution *table:* F1920_F3(fiscal year 2020), F1819_F3(fiscal year 2019), F1718_F3(fiscal year 2018) *table description:* Private for-profit institutions *variable:* F3D02A; F3D03A; F3D03C *function:* (F3D02A+ F3D03A+ F3D03C) summed on UNITID *source:* IPEDS 2019-2020 (provisional), IPEDS 2018-2019 (provisional/final), IPEDS 2017-2018 (final) *variable description:* - F3D02A: Federal appropriations (Private for-profit institutions) - F3D03A: State appropriations (Private for-profit institutions) - F3D03C: Local government appropriations (Private for-profit institutions) - UNITID: Unique identification number of the institution
	Tuition fees from students in degree programmes	*table:* F1920_F1A(fiscal year 2020), F1819_F1A(fiscal year 2019), F1718_F1A(fiscal year 2018); *table description:* Public institutions - GASB 34/35: *variable:* F1B01 *function:* F1B01 summed on UNITID *source:* IPEDS 2019-2020 (provisional), IPEDS 2018-2019 (provisional/final), IPEDS 2017-2018 (final) *variable description:* F1B01: Tuition and fees, after deducting discounts and allowances (Public institutions - GASB 34/35)

U-Multirank Question	Data element	Mapped element
		• UNITID: Unique identification number of the institution *table:* F1920_F2(fiscal year 2020), F1819_F2(fiscal year 2019), F1718_F2(fiscal year 2018) *table description:* Private not-for-profit institutions or Public institutions using FASB *variable:* F2D01 *function:* F2D01 summed on UNITID *source:* IPEDS 2018-2019 (provisional), IPEDS 2017-2018 (provisional/final), IPEDS 2017-2016 (final) *variable description:* • F2D01: Tuition and fees - Total (Private not-for-profit institutions or Public institutions using FASB) • UNITID: Unique identification number of the institution *table:* F1920_F3(fiscal year 2020), F1819_F3(fiscal year 2019), F1718_F3(fiscal year 2018) *table description:* Private for-profit institutions *variable:* F3D01 *function:* F3D01 summed on UNITID *source:* IPEDS 2019-2020 (provisional), IPEDS 2018-2019 (provisional/final), IPEDS 2017-2018 (final) *variable description:* • F3D01: Tuition and fees (Private for-profit institutions) • UNITID: Unique identification number of the institution
	Fees from courses organised within the framework of continuing professional development (CPD)	
	External revenues from research	*table:* F1920_F2(fiscal year 2020), F1919_F2(fiscal year 2019), F1718_F2(fiscal year 2018) *table description:* Private not-for-profit institutions or Public institutions using FASB *variable:* F2D05; F2D06; F2D07; F2D08 *function:* (F2D05+ F2D06+ F2D07+ F2D08) summed on UNITID *source:* IPEDS 2019-2020 (provisional), IPEDS 2018-2019 (provisional/final), IPEDS 2017-2018 (final) *variable description:*

U-Multirank Question	Data element	Mapped element
		• F2D05: Federal grants and contracts - Total (Private not-for-profit institutions or Public institutions using FASB) • F2D06: State grants and contracts - Total (Private not-for-profit institutions or Public institutions using FASB) • F2D07: Local grants and contracts - Total (Private not-for-profit institutions or Public institutions using FASB) • F2D08: Private gifts, grants, and contracts - Total (Private not-for-profit institutions or Public institutions using FASB) • UNITID: Unique identification number of the institution *table:* F1920_F3(fiscal year 2020), F1819_F3(fiscal year 2019), F1718_F3(fiscal year 2018) *table description:* Private for-profit institutions *variable:* F3D02B; F3D03B; F3D03D; F3D04 *function:* (F3D02B + F3D03B + F3D03D + F3D04) summed on UNITID *source:* IPEDS 2019-2020 (provisional), IPEDS 2018-2019 (provisional/final), IPEDS 2017-2018 (final) *variable description:* • F3D02B: Federal grants and contracts (Private for-profit institutions) • F3D03B: State grants and contracts (Private for-profit institutions) • F3D03D: Local government and contracts (Private for-profit institutions) • F3D04: Private gifts, grants, and contracts (Private for-profit institutions) • UNITID: Unique identification number of the institution
	external revenues from privately funded research contracts	*Prefilling for public institutions is still under validation* *table:* F1920_F2(fiscal year 2020), F1819_F2(fiscal year 2019), F1718_F2(fiscal year 2018) *table description:* Private not-for-profit institutions or Public institutions using FASB *variable:* F2D08 *function:* F2D08 summed on UNITID) *source:* IPEDS 2019-2020 (provisional), IPEDS 2018-2019 (provisional/final), IPEDS 2017-2018 (final) *variable description:*

U-Multirank Question	Data element	Mapped element

		• F2D08: Private gifts, grants, and contracts - Total (Private not-for-profit institutions or Public institutions using FASB)
		• UNITID: Unique identification number of the institution
		
		table: F1920_F3(fiscal year 2020), F1819_F3(fiscal year 2019), F1718_F3(fiscal year 2018)
		table description: Private for-profit institutions
		variable: F3D04
		function: F3D04 summed on UNITID
		source: IPEDS 2018-2019 (provisional), IPEDS 2017-2018 (provisional/final), IPEDS 2017-2016 (final)
		variable description:
		    • F3D04: Private gifts, grants, and contracts (Private for-profit institutions)
		    • UNITID: Unique identification number of the institution

Q19: Expenditure	Total expenditure	

	% on research	*table:* F1920_F1A(fiscal year 2020), F1819_F1A(fiscal year 2019), F1516_F1A(fiscal year 2018);
		table description: Public institutions - GASB 34/35:
		variable: F1C011; F1C021; F1C031
		function: F1C021/(F1C011 + F1C021 + F1C031)*100 summed on UNITID
		source: IPEDS 2019-2020 (provisional), IPEDS 2018-2019 (provisional/final), IPEDS 2017-2018 (final)
		variable description:
		    • F1C011: Instruction expenses, current year total (Public institutions - GASB 34/35)
		    • F1C021: Research expenses, current year total (Public institutions - GASB 34/35)
		    • F1C031: Public service expenses, current year total (Public institutions - GASB 34/35)
		    • UNITID: Unique identification number of the institution
		
		table: F1920_F2(fiscal year 2020), F1819_F2(fiscal year 2019), F1718_F2(fiscal year 2018)
		table description: Private not-for-profit institutions or Public institutions using FASB
		variable: F2E011; F2E021; F2E031

U-Multirank Question	Data element	Mapped element
		function: F2E021/(F2E011 + F2E021 + F2E031)*100 summed on UNITID *source:*　IPEDS 2019-2020 (provisional), IPEDS 2018-2019 (provisional/final), IPEDS 2017-2018 (final) *variable description:* • F2E011: Instruction expenses, current year total (Private not-for-profit institutions or Public institutions using FASB) • F2E021: Research expenses, current year total (Private not-for-profit institutions or Public institutions using FASB) • F2E031: Public service expenses, current year total (Private not-for-profit institutions or Public institutions using FASB) • UNITID: Unique identification number of the institution *table:* F1920_F3(fiscal year 2020), F1819_F3(fiscal year 2019), F1718_F3(fiscal year 2018) *table description:* Private for-profit institutions *variable:* F3E011; F3E02A1; F3E02B1 *function:* F3E02A1/(F3E011 + F3E02A1 + F3E02B1) *100 summed on UNITID *source:*　IPEDS 2019-2020 (provisional), IPEDS 2018-2019 (provisional/final), IPEDS 2017-2018 (final) *variable description:* • F3E011: Instruction expenses, current year total (Private for-profit institutions) • F3E02A1: Research expenses, current year total (Private for-profit institutions) • F3E02B1: Public service expenses, current year total (Private for-profit institutions) • UNITID: Unique identification number of the institution
	% on teaching	*table:* F1920_F1A(fiscal year 2020), F1819_F1A(fiscal year 2019), F1718_F1A(fiscal year 2018); *table description:* Public institutions - GASB 34/35: *variable:* F1C011; F1C021; F1C031 *function:* F1C011/(F1C011 + F1C021 + F1C031)*100 summed on UNITID *source:*　IPEDS 2019-2020 (provisional), IPEDS 2018-2019 (provisional/final), IPEDS 2017-2018 (final) *variable description:* • F1C011: Instruction expenses, current year total (Public institutions - GASB 34/35) • F1C021: Research expenses, current year total (Public institutions - GASB 34/35)

U-Multirank Question	Data element	Mapped element
		• F1C031: Public service expenses, current year total (Public institutions - GASB 34/35) • UNITID: Unique identification number of the institution *table:* F1920_F2(fiscal year 2020), F1819_F2(fiscal year 2019), F1718_F2(fiscal year 2018) *table description:* Private not-for-profit institutions or Public institutions using FASB *variable:* F2E011; F2E021; F2E031 *function:* F2E011/(F2E011 + F2E021 + F2E031)*100 summed on UNITID *source:* IPEDS 2019-2020 (provisional), IPEDS 2018-2019 (provisional/final), IPEDS 2017-2018 (final) *variable description:* • F2E011: Instruction expenses, current year total (Private not-for-profit institutions or Public institutions using FASB) • F2E021: Research expenses, current year total (Private not-for-profit institutions or Public institutions using FASB) • F2E031: Public service expenses, current year total (Private not-for-profit institutions or Public institutions using FASB) • UNITID: Unique identification number of the institution *table:* F1920_F3(fiscal year 2020), F1819_F3(fiscal year 2019), F1718_F3(fiscal year 2018) *table description:* Private for-profit institutions *variable:* F3E011; F3E02A1; F3E02B1 *function:* F3E011/(F3E011 + F3E02A1 + F3E02B1) *100 summed on UNITID *source:* IPEDS 2019-2020 (provisional), IPEDS 2018-2019 (provisional/final), IPEDS 2017-2018 (final) *variable description:* • F3E011: Instruction expenses, current year total (Private for-profit institutions) • F3E02A1: Research expenses, current year total (Private for-profit institutions) • F3E02B1: Public service expenses, current year total (Private for-profit institutions) • UNITID: Unique identification number of the institution
	% on knowledge transfer	*table:* F1920_F1A(fiscal year 2020), F1819_F1A(fiscal year 2019), F1718_F1A(fiscal year 2018); *table description:* Public institutions - GASB 34/35:

U-Multirank Question	Data element	Mapped element
		variable: F1C011; F1C021; F1C031 *function:* F1C031/(F1C011 + F1C021 + F1C031)*100 summed on UNITID *source:* IPEDS 2019-2020 (provisional), IPEDS 2018-2019 (provisional/final), IPEDS 2017-2018 (final) *variable description:* • F1C011: Instruction expenses, current year total (Public institutions - GASB 34/35) • F1C021: Research expenses, current year total (Public institutions - GASB 34/35) • F1C031: Public service expenses, current year total (Public institutions - GASB 34/35) • UNITID: Unique identification number of the institution *table:* F1920_F2(fiscal year 2020), F1819_F2(fiscal year 2019), F1718_F2(fiscal year 2018) *table description:* Private not-for-profit institutions or Public institutions using FASB *variable:* F2E011; F2E021; F2E031 *function:* F2E031/(F2E011 + F2E021 + F2E031)*100 summed on UNITID *source:* IPEDS 2019-2020 (provisional), IPEDS 2018-2019 (provisional/final), IPEDS 2017-2018 (final) *variable description:* • F2E011: Instruction expenses, current year total (Private not-for-profit institutions or Public institutions using FASB) • F2E021: Research expenses, current year total (Private not-for-profit institutions or Public institutions using FASB) • F2E031: Public service expenses, current year total (Private not-for-profit institutions or Public institutions using FASB) • UNITID: Unique identification number of the institution *table:* F1920_F3(fiscal year 2020), F1819_F3(fiscal year 2019), F1718_F3(fiscal year 2018) *table description:* Private for-profit institutions *variable:* F3E011; F3E02A1; F3E02B1 *function:* F3E02B1/(F3E011 + F3E02A1 + F3E02B1) *100 summed on UNITID *source:* IPEDS 2019-2020 (provisional), IPEDS 2018-2019 (provisional/final), IPEDS 2017-2018 (final) *variable description:* • F3E011: Instruction expenses, current year total (Private for-profit institutions)

U-Multirank Question	Data element	Mapped element
		• F3E02A1: Research expenses, current year total (Private for-profit institutions) • F3E02B1: Public service expenses, current year total (Private for-profit institutions) • UNITID: Unique identification number of the institution