

# NCSES Class Database Diagram

Sample variable names are provided. For a full list of available variables per dataset, please refer to the data dictionaries.

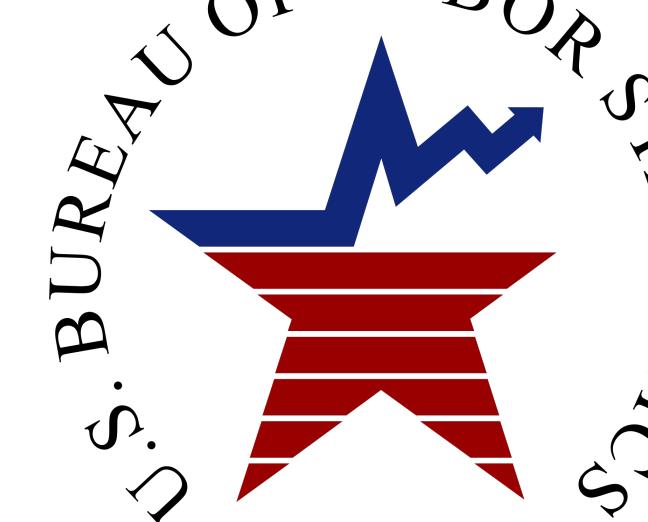
Links	
	Institution
	Individual
	Location



Federal RePORTER



NCSES



## United States Patent and Trademark Office (USPTO) and Federal RePORTER

(uspto\_nih\_fedreporter)

UNITID (University IPEDS ID) (PK)
UNIVERSITY (University name) (PK)
YEAR (Year) (PK)
PATENTS (Num. of Patents)
GOVINTEREST (Num. of Patents with Gov. Interest)
JOINT_W_BUSINESS (Num. of Patents Joint with Business)
FEMALE_INVENTORS (Num. of Female Inventors)
UNIQUE_INVENTORS (Num. of Unique Inventors)
GRANTS (Number of Grants)

## Higher Education Research and Development Survey (HERD)

(nsf\_herd)

IPEDS_INST_ID (Institution IPEDS ID) (PK)
NCSES_INST_ID (Institution NCSES ID)
STD_INST_NAME (Standardized Institution Name)
YEAR (Fiscal Year between 2000 and 2017) (PK)
HBCU_FLAG (Historically Black Colleges and Universities)
HHE_FLAG (High Hispanic Enrollment Indicator)
MED_SCH_FLAG (Indicator for Medical School)
TOTAL_RD (R&D Expenditures)
FEDERAL_RD (Federally funded R&D Expenditures)
CITY (City of the Academic Institution)
STATE (State of the Academic Institution)
ZIPCODE (US ZIP code of the Academic Institution)

## HUD-USPS ZIP Code Crosswalk

(hud\_zip\_fips\_xwalk)

ZIPCODE (ZIP code)
FIPSCODE (County FIPS Code)

## Quarterly Census of Employment and Wages (QCEW)

(bls\_qcew)

FIPS (County FIPS code) (PK)
YEAR (Calendar Year) (PK)
INDUSTRY_CODE (2-digit NAICS code)
LQ_ANNUAL_AVG_EMPLVL (Annual average employment level location quotients)
LQ_AVG_ANNUAL_PAY (Annual average pay level location quotients)
LQ_AVG_ANNUAL_ESTAB_COUNT (Annual average establishment count location quotients)

## Survey of Earned Doctorates (SED)

(nsf\_sed)

DRF_ID (Individual ID) (PK)
PHDFY (Fiscal Year of PhD)
PHDINST (PhD Institution) (FK)
PHDFIELD_NAME (PhD Field)
SRCEPRIM (Primary Source of Support)
UDEBTLEVL (Undergraduate Debt Level)
GDEBTLVL (Graduate Debt Level)
PDLOC (Country/state after graduation)
PDOCPPLAN (Postgraduate Plans)
PDEMploy (Principal Employer)
SALARYV (Salary)
SEX (Sex)

## SED-SDR Crosswalk

(sdr\_drfid\_2015, sdr\_drfid\_2017)

DRF_ID (Individual)
REFID (Individual)

## Survey of Doctorate Recipients 2015, 2017 (SDR)

(nsf\_sdr\_2015, nsf\_sdr\_2017)

REFID (Individual) (PK)
SDRYR (Year of First US PhD) (PK)
N2OCLST (Job Category)
EMSECSM (Employer Sector)
SALARY (Annual Salary)
MARSTA (Marital Status)
SPOWK (Spouse or Partner Working?)
CHLVIN (Children)
RESIDE (Residence)
AGEGR (Age Group)
RACETHM (Race/Ethnicity)



## SDR Replicate Weights

(nsf\_sdr\_rw\_2015, nsf\_sdr\_rw\_2017)

REFID (Individual) (PK)
Replicate Weight (RW001)
RW002
...
RW104

NCSES

## IRIS Semester

(iris\_semester)

EMP_NUMBER (Individual) (PK)
SEMESTER (Four-month semester period)
ANY_NON_FEDERAL (Indicator for whether an employee is paid by non-federal grant)
MODAL_SUBORG (Type of university suborganization most frequently funding this student this semester)
MODAL_FUNDER (Federal agency (or 'non-federal') most frequently funding this student this semester)
TEAM_SIZE (Total number of employees paid on concurrent grants)
IMPUTED_GENDER (Gender as imputed by IRIS)
IMPUTED_RACE (Race/ethnicity as imputed by IRIS)

## IRIS Employee

(iris\_micro\_employee)

EMP_NUMBER (Individual) (PK)
INSTITUTION_ID (IRIS member university ID) (PK)
UNIQUE_AWARD_NUMBER (University-generated award ID)
FED_AWD_NUM_STD (ID specifying a federal award)
CFDA (Catalog of Federal Domestic Assistance number representing a source of funding)
OBJECT_CODE (Expense type category assigned to a transaction)
JOB_TITLE (Job or occupation title assigned by university)
OCCUPATIONAL_CLASS (Job classification provided by university)
UMETRICS_OCCUPATIONAL_CLASS (Job classification generated by IRIS)



## IRIS Award

(iris\_micro\_award)

INSTITUTION_ID (IRIS member university ID) (PK)
UNIQUE_AWARD_NUMBER (University-generated award ID)
FED_AWD_NUM_STD (ID specifying a federal award)
CFDA (Catalog of Federal Domestic Assistance number representing a source of funding)
FUNDING_SOURCE_NAME_CLEAN (Cleaned name of funding source)
AWARD_TITLE (Title of award)
TOTAL_DIRECT_EXPENDITURES (Total direct expenditures)
AWARD_TYPE (Award type: (1) federal research (2) federal non-research (3) non-federal)

## IRIS-HERD Crosswalk

(iris\_herd\_xwalk)

IPEDS_INST_ID (Institution IPEDS ID)
IRIS_INST_ID (IRIS member university ID)
IRIS_INST_NAME (IRIS-assigned Institution Name)
NCSES_INST_ID (Institution NCSES ID)
STD_INST_NAME (Standardized Institution Name)

## SED-IRIS Crosswalk

(sed\_iris\_xwalk)

DRF_ID (Individual)
EMP_NUMBER (Individual)