# Attachment #1: Data Requirements

**Date:** (please use MM/DD/YYYY format)

**The following files are available for licensing from the National Center for Science and Engineering Statistics (NCSES). Please select the files you would like to license***:*

## Available Doctorate Records Files

Each year, the data from the Survey of Earned Doctorates (SED) are compiled into the Doctorate Records File (DRF). The DRF is a historical record of doctorate-degree graduates. Begun in 1920, the DRF contains annual information used to track the number of graduates in various files and other information related to the U.S. doctorate earning population.

[ ]  DRF (through 2018)

## Available Scientists and Engineers Statistical Data System Files

SESTAT is the Scientists and Engineers Statistical Data System. This integrated system is a unique source of longitudinal information on the education and employment of the college-educated U.S. science and engineering workforce. The data are collected through biennial surveys:

* The National Survey of College Graduates (NSCG)
* The National Survey of Recent College Graduates (NSRCG) (discontinued after 2010)
* The Survey of Doctorate Recipients (SDR)

[ ]  1993 SESTAT restricted use data file and available documentation

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## Available National Survey of College Graduates Files

The National Survey of College Graduates is a repeated cross-sectional biennial survey that provides data on the nation’s college graduates, with a focus on those in the science and engineering workforce. This survey is a unique source for examining the relationship of degree field and occupation in addition to other characteristics of college-educated individuals, including work activities, salary, and demographic information.

Please note that the SDAF contains a reduced version of the NSCG restricted-use data. The SDAF version of the file is a publicly available dataset with a unique case identifier for each respondent (REFID) appended to the file. This allows approved researchers to merge different cycles of the NSCG survey and track respondents longitudinally. The full version of the NSCG restricted-use data may be obtainedthrough the Census Bureau’s [Federal Statistical Research Data Centers (FSRDC)](http://www.census.gov/fsrdc)).

[ ]  1993 NSCG restricted use data file and available documentation

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[ ]  2015 NSCG restricted use data file and available documentation

[ ]  2017 NSCG restricted use data file and available documentation

## Available National Survey of Recent College Graduate Files

The National Survey of College Graduates (NSRCG) was a survey conducted from 1973 to 2010. It was a cross-sectional biennial survey that provided demographic and career information about individuals holding a bachelor’s or master’s degree in a science, engineering, or health field from a U.S. academic institution.

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## Available Survey of Doctorate Recipient Files

The Survey of Doctorate Recipients (SDR) is a longitudinal biennial survey conducted since 1973 that provides demographic career history information about individuals with a research doctoral degree in a science, engineering, or health field from a U.S. academic institution. The survey follows a sample of individuals throughout their careers from the year of their degree until age 76. The panel is refreshed each survey cycle with a sample of new doctorate earners.

The SDR uses the DRF (referenced above) as its sampling frame. The SDR\_DRF datasets contain the DRF variables for the respondents selected into the SDR sample. Individuals can be linked across the two files to get a complete picture (i.e., demographic and career outcomes) of the respondent.

The ISDR file contains data for individuals who earned doctorate degrees in the United States but are now predicted to be living internationally.

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[ ]  1993 SDR\_DRF restricted use data file and available documentation

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**Please list 10–20 restricted-use variables from the files that you selected, by name that you plan to use in your research project.**

# Attachment #2: Research Plan

**Date:** (please use MM/DD/YYYY format)

## Instructions

*For attachment #2, the following elements are requested:*

1. *A short description of your research.*

The detail required, for example, in a grant proposal is not necessary. Rather, we just need to get a summary of what you intend to do with the data so that we may evaluate the appropriateness of the data for your research. If you intend to use the licensed data for multiple projects, please describe each project separately. Once the license is issued, you are always at liberty to add additional data or projects.

1. *A project summary.*

The summary must tie to the data requirements you listed on the data requirements form. For SESTAT/NSCG/NSRCG/SDR, please reference which survey you are requesting restricted-use data for, as well as why the specific restricted-use variables are crucial to your research.

If you intend to match the data to any external datasets, please provide a short description of these datasets, what matching will be done, and the output.

1. Analytical approach.

*Please describe your analytical approach including any statistical techniques (e.g., crosstabulations, regression analysis, correlational, etc.) that you will use to analyze the restricted use data. Because of the costs associated with providing access to restricted use data, in some cases it is preferable for NCSES staff to carry out the analysis (under your direction) rather than provide access to the data. Knowing how you intend to analyze the data can help us make this assessment.*

1. *Justification for use.*

Include a section with a justification for why the publicly available data is not sufficient for your research. If you request multiple years of the SESTAT/NSCG/NSRCG/SDR, please include a justification for that.

1. *Names of* ***same-institution*** *collaborating researchers.*

Include a section naming all the collaborating researchers at your institution for your project(s). **Note that if you need to collaborate with researchers at other institutions, they will need a separate license.** The terms of collaboration will need to be addressed in the security plan.

**NOTE: We are requesting the research plan for the purposes of evaluating your need for the highly confidential data—not to assess the quality of your research.**

Research Plan - Requested Elements

1. Project summary:
2. Data matching description (if not any):
3. Justification for why the public-use data are not sufficient:
4. Collaborating researchers at *[Your Institution Name]*: