



# Data Explorer Walkthrough



HOME

EXPLORE DATA

BUILD TABLE ▾

BUILD CHART ▾

PUBLIC USE FILES

FEEDBACK

HELP

## Data Explorer

Show me variables that match:

+Filter Results

Show me variables that match

R&D Funding Received and Spent ✕

# This walkthrough will show you data and features available in the Data Explorer

Surveys Variables

Surveys

Higher Education R&D (HERD)  
Science and Engineering Research  
Facilities

Topics

Remove topic filter

R&D Funding Received and Spent

- R&D Funding Received and Spent
- R&D Funding Source
- Type of R&D Funding Agreement
- R&D Cost Type

**Higher Education Research and Development Survey** ⓘ

|                               |                             |  |                                |                    |
|-------------------------------|-----------------------------|--|--------------------------------|--------------------|
| <b>Survey Type:</b><br>Census | <b>Frequency:</b><br>Annual | <b>Response Unit:</b><br>Academic Institutions | <b>Population Size:</b><br>916 | <b>Builder</b><br> |
|-------------------------------|-----------------------------|--|--------------------------------|--------------------|

**Key Topics:**

- Type of R&D Funding Agreement
- R&D Funding Source
- R&D Funding Received and Spent
- R&D Cost Type
- Type of R&D Activity
- Survey Cycle and Other Technical
- R&D Personnel at Colleges and Universities
- Location
- More

**Survey of Science and Engineering Research Facilities** ⓘ

|                               |                               |  |                                |                    |
|-------------------------------|-------------------------------|--|--------------------------------|--------------------|
| <b>Survey Type:</b><br>Census | <b>Frequency:</b><br>Biennial | <b>Response Unit:</b><br>Academic Institutions | <b>Population Size:</b><br>591 | <b>Builder</b><br> |
|-------------------------------|-------------------------------|--|--------------------------------|--------------------|

**Key Topics:**

- R&D Funding Source
- Survey Cycle and Other Technical
- Repairs and Renovation of R&D Facilities
- New Construction of R&D Facilities
- Location
- Institution Name
- Institution Characteristics
- Fields of Study
- More



# Data Explorer Walkthrough

## Search

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Once you have entered a search term via icons on the landing page, typing in the search bar or topics shown in the left rail, the search term will appear

Show me variables that match

R&D Funding Received and Spent

+Filter Results

## Surveys and variables panel

Search Term

- Surveys
- Higher Education R&D Science and Engineering Facilities
- Topics
- Remove topic filter
- R&D Funding Received and Spent
- R&D Funding Source
- Type of R&D Funding Agreement
- R&D Cost Type

Left Rail

The screenshot shows the Data Explorer interface with the search term 'R&D Funding Received and Spent' entered in the search bar. The interface displays a list of surveys and variables. The 'Higher Education Research and Development Survey' is highlighted, showing details such as Survey Type (Census), Frequency (Annual), Response Unit (Academic Institutions), and Population Size (916). Key topics for this survey include 'Type of R&D Funding Agreement', 'R&D Funding Source', 'R&D Funding Received and Spent', 'R&D Cost Type', and 'Type of R&D Activity'. The 'Survey of Science and Engineering Research Facilities' is also visible below it.

Filter Results



Location



# Data Explorer Walkthrough

## Surveys and Variables Panel

Data Explorer

Matching results from your search will be shown in the surveys and variables panel

Show me variables that match

R&D Funding Received and Spent

+Filter Results

You can click on the surveys and/or variables tab to see specific surveys and/or variables matching your search term

Export survey and variable summaries

Surveys Variables

### Higher Education Research and Development Survey

**Survey Type:**

Census

**Frequency:**

Annual

**Response Unit:**

Academic Institutions

**Population Size:**

916

**Builder**



**Key Topics:**

Type of R&D Funding Agreement

R&D Funding Source

R&D Funding Received and Spent

R&D Cost Type

Type of R&D Activity

Survey Cycle and Other Technical

R&D Personnel at Colleges and Universities

Location

More



# Data Explorer Walkthrough

## Surveys

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### Data Explorer

Show me variables that match:

Click info icon for survey description

+Filter Results

Show me variables that match

R&D Funding Received and Spent ✕

Surveys tab

Click survey name for survey details

Surveys  
Higher Education R&D (HERD)

Surveys Variables  
Higher Education Research and Development Survey ⓘ

Surveys

Variables

#### Higher Education Research and Development Survey ⓘ

**Survey Type:**

Census

**Frequency:**

Annual

**Response Unit:**

Academic Institutions

**Population Size:**

916

**Builder**



**Key Topics:**

Type of R&D Funding Agreement

R&D Funding Source

R&D Funding Received and Spent

R&D Cost Type

Type of R&D Activity

Survey Cycle and Other Technical

R&D Personnel at Colleges and Universities

Location

More

The search results highlight the key topics in blue

Build a chart or table



# Data Explorer Walkthrough



## Surveys

[HOME](#)[EXPLORE DATA](#)[BUILD TABLE](#)[BUILD CHART](#)[PUBLIC USE FILES](#)[FEEDBACK](#)[HELP](#)

This is a survey details panel

Show me variables that match:

[+Filter Results](#)

Show

[HOME](#)[EXPLORE DATA](#)[BUILD TABLE](#)[BUILD CHART](#)[PUBLIC USE FILES](#)[FEEDBACK](#)[HELP](#)

### Data Explorer

Show me variables that match:

Show me variables that match

R&D Funding Received and Spent

Surveys

[Higher Education R&D \(HERD\) Science and Engineering Research Facilities](#)

Topics

[Remove topic filter](#)

R&D Funding Received and Spent

[R&D Funding Received and Spent](#)

[R&D Funding Source](#)

[Type of R&D Funding Agreement](#)

[R&D Cost Type](#)

Surveys

Variables

#### Higher Education Research and De

**Survey Type:** Census  
**Frequenc:** Annual

**Key Topics:**

Type of R&D Funding Agreement

Survey Cycle and Other Technical

#### Survey of Science and Engineering

**Survey Type:** Census  
**Frequenc:** Biennial

**Key Topics:**

R&D Funding Source

Survey Cycle

Institution Name

Institution Character

### Survey Details



#### Questionnaire

[Higher Education Research and Development Survey](#)

#### Survey Description

The Higher Education Research and Development (HERD) Survey is the primary source of information on separately accounted for R&D expenditures within higher education institutions in the United States and outlying areas.

#### Survey Measures

Headcounts for Institutions with Over \$1M R&D Expenditures  
R&D Expenditures for All Institutions  
R&D Expenditures for Institutions With Over \$1M

#### Years Collected

2010-2019

#### Dimensions Available

Broad Field  
Conducts Clinical Trials  
Detailed Field  
Detailed Source of Funds  
Detailed Source of Funds (Passthrough)  
Doctorate Granting  
Federal Agency  
Federal and Nonfederal

Data Table Builder

Public Use Files

Chart Builder

Table Builder

Builder

Location



# Data Explorer Walkthrough



## Variables

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### Data Explorer

Show me variables that match:

Variables tab

[+Filter Results](#)

Show me variables that match

R&D Funding Received and Sent

You can find more detailed information by clicking on variable name

| Surveys  |   | Variables |           |        |         |  |
|--|---|-----------|-----------|--------|---------|--|
| Name   | Measure(s)  | Unit      | Years     | Survey | Builder |  |
| <a href="#">R&amp;D Expenditures for Medical Projects</a>                                    | <i>is a measure of R&amp;D Expenditures for Institutions With Over \$1M</i> | Dollars   | 2010-2019 | HERD   |         |  |
| <a href="#">Total R&amp;D Expenditures by Broad Field and Federal and Nonfederal Sources</a> | <i>is a measure of R&amp;D Expenditures for All Institutions</i>            | Dollars   | 2010-2019 | HERD   |         |  |
| <a href="#">Type of Costs (Direct or Indirect)</a>   | <i>R&amp;D Expenditures for Institutions With Over \$1M</i>                 | Dollars   | 2010-2019 | HERD   |         |  |

R&D Funding Source   Survey Cycle and Other Technical   Repairs and Renovation of R&D Facilities   New Construction of R&D Facilities   Location

Institution Name   Institution Characteristics   Fields of Study   More

Build a chart or table



# Data Explorer Walkthrough



## Variables

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This is a variable details panel

Show me variables that match:

[+Filter Results](#)

[Surveys](#)

[Variables](#)

| Name   |   |
|--|---|
| <a href="#">R&amp;D Expenditures for Medical Projects</a> ⓘ                                    | <i>is a measure of / With Over \$1M</i> |
| <a href="#">Total R&amp;D Expenditures by Broad Field and Federal and Nonfederal Sources</a> ⓘ | <i>is a measure of / Institutions</i>   |
| <a href="#">Type of Costs (Direct or Indirect)</a> ⓘ   | R&D Expenditure                         |
| <a href="#">Type of Funding Agreement (Contracts or Grants)</a> ⓘ                              | R&D Expenditure                         |
| <a href="#">Detailed Source of Funds for Costs Related to Repairs and Construction</a> ⓘ       | Completion Cost                         |
| <a href="#">R&amp;D Expenditures by Type of Funding Agreement (Contracts and Grants)</a> ⓘ     | <i>is a measure of / With Over \$1M</i> |

**Measure**  
R&D Expenditures for Medical Projects

*is a measure of / With Over \$1M*  
[Higher Education Research and Development Survey](#)

**Survey Description**  
The Higher Education Research and Development (HERD) Survey is the primary source of information on separately accounted for R&D expenditures within higher education institutions in the United States and outlying areas.

**Measure Description**  
R&D dollars expended from projects that are assigned to an institution's medical school or to research

**Other Survey Measures**  
Headcounts for Institutions with Over \$1M R&D Expenditures  
R&D Expenditures for All Institutions

**Years Available**  
2010-2019

**Question**  
Question 4

**Topics**  
R&D Funding Received and Spent  
R&D Funding Received and Spent

📄

📊

📄

⋮ ✕

[Public Use Files](#)[Chart Builder](#)[Table Builder](#)[Builder](#)[Location](#)



# Data Explorer Walkthrough



## Left Rail

HOME

EXPLORE DATA

BUILD TABLE ▾

BUILD CHART ▾

PUBLIC USE FILES

FEEDBACK

HELP

### Data Explorer

Show me variables that match:

Show me variables that match

R&D Funding Received and Spent



HOME

EXPLORE DATA

BUILD TABLE ▾

BUILD CHART ▾

PUBLIC USE FILES

### Data Explorer

Show me variables that match:

Show me variables that match

R&D Funding Received and Spent

+Filter Results

Surveys

Variables

Surveys

Higher Education R&D (HERD)  
Science and Engineering Research  
Facilities

Topics

Remove topic filter

R&D Funding Received and Spent  
R&D Funding Received and Spent  
R&D Funding Source  
Type of R&D Funding Agreement  
R&D Cost Type

#### Higher Education Research and Development Survey

**Survey Type:** Census    **Frequency:** Annual    **Response Unit:** Academic Institutions    **Population Size:** 916

**Key Topics:**

Type of R&D Funding Agreement    R&D Funding Source    R&D Funding Received and Spent    R&D Cost Type  
Survey Cycle and Other Technical    R&D Personnel at Colleges and Universities    Location    More

#### Survey of Science and Engineering Research Facilities

**Survey Type:** Census    **Frequency:** Biennial    **Response Unit:** Academic Institutions    **Population Size:** 591

**Key Topics:**

R&D Funding Source    Survey Cycle and Other Technical    Repairs and Renovation of R&D Facilities    New Construction  
Institution Name    Institution Characteristics    Fields of Study    More

If you click on a specific survey, your search results are narrowed



Clicking on the topics will replace the search term, instead of refining the current search





# Data Explorer Walkthrough



## Filter Results

[HOME](#)[EXPLORE DATA](#)[BUILD TABLE](#)[BUILD CHART](#)[PUBLIC USE FILES](#)[FEEDBACK](#)[HELP](#)

### Data Explorer

Show me variables that match:

Filter search results in the Data Explorer to find datasets that support combining variables of interest together in a single table or chart.

As the first step, perform a search.

[+Filter Results](#)

Show me variables that match

R&D Funding Received and Spent

## Variables panel

Surveys Variables

[HOME](#)[EXPLORE DATA](#)[BUILD TABLE](#)[BUILD CHART](#)[PUBLIC USE FILES](#)[FEEDBACK](#)[HELP](#)

### Data Explorer

Show me variables that match:

[+Filter Results](#)

Show me variables that match

new construction cost in All Results

Surveys

Variables

Surveys

Federal S&E Support to Institutions  
Science and Engineering Research  
Facilities  
IPEDS Completions  
IPEDS Enrollment

Topics

R&D Facilities  
New Construction of R&D  
Facilities  
Colleges and Universities  
Institution Name  
Institution Characteristics

Previous 1 Next

| Name  | Measure(s)                                | Unit    | Years     | Survey | Builder |
|---|---|---------|-----------|--------|---------|
| <a href="#">Estimated Cost of Deferred New Construction</a>                     | is a measure of Estimated Cost            | Dollars | 2007-2019 | FAC    |         |
| <a href="#">Estimated Completion Cost of Planned New Construction</a>           | is a measure of Estimated Completion Cost | Dollars | 2007-2019 | FAC    |         |
| <a href="#">Estimated Cost of Deferred New Construction for Medical Schools</a> | is a measure of Estimated Cost            | Dollars | 2007-2019 | FAC    |         |



# Data Explorer Walkthrough



## Filter Results

[HOME](#)[EXPLORE DATA](#)[BUILD TABLE](#)[BUILD CHART](#)[PUBLIC USE FILES](#)[FEEDBACK](#)[HELP](#)

The second step is clicking on the 'Filter Results' and then select a topic.

Data Explorer

Show me variables that match:

Show me variables that match:

Surveys

Higher Education R&D (HERD)  
Science and Engineering Research  
Facilities

Topics

Remove topic filter

R&D Funding Received and Spent  
R&D Funding Received and Spent  
R&D Funding Source  
Type of R&D Funding Agreement  
R&D Cost Type

The screenshot shows the Data Explorer interface. At the top, there is a navigation bar with links for HOME, EXPLORE DATA, BUILD TABLE, BUILD CHART, PUBLIC USE FILES, FEEDBACK, and HELP. The main content area has a search bar with the text "new construction cost in All Results". Below the search bar, there are tabs for "Surveys" and "Variables". The "Surveys" tab is active, showing a list of surveys. A dropdown menu is open, showing a list of suggested topics. The "R&D Funding Source" topic is highlighted. The table below the dropdown shows the following data:

| Name  | Description                               | Units   | Years     |
|---|---|---------|-----------|
| Estimated Cost of Deferred New Construction                                     | is a measure of Estima                    |         | 2007-2019 |
| Estimated Completion Cost of Planned New Construction                           | is a measure of Estima                    |         | 2007-2019 |
| Estimated Cost of Deferred New Construction for Medical Schools                 | is a measure of Estima                    |         | 2007-2019 |
| Completion Cost of Current New Construction for Medical Schools                 | is a measure of Completion Cost           | Dollars | 2007-2019 |
| Completion Cost of Current New Construction by Funding Source                   | is a measure of Completion Cost           | Dollars | 2007-2019 |
| Estimated Completion Cost of Planned New Construction for Medical Schools       | is a measure of Estimated Completion Cost | Dollars | 2007-2019 |
| Completion Cost of Current New Construction by Field of Science and Engineering | is a measure of Completion Cost           | Dollars | 2007-2019 |

Suggested Topics



# Data Explorer Walkthrough



## Filter Results

[HOME](#)[EXPLORE DATA](#)[BUILD TABLE](#)[BUILD CHART](#)[PUBLIC USE FILES](#)[FEEDBACK](#)[HELP](#)

### Data Explorer

Your results are filtered to variables that can be combined together.

Show me variables that match:

[+Filter Results](#)[HOME](#)[EXPLORE DATA](#)[BUILD TABLE](#)[BUILD CHART](#)[PUBLIC USE FILES](#)[FEEDBACK](#)[HI](#)

### Data Explorer

Show me variables that match:

[+Filter Results](#)

Show me variables that match **new construction cost in All Results** ✕

and can be compared in a table to **R&D Funding Source in R&D Funding Received and Spent** ✕

[Surveys](#) [Variables](#)

Surveys

Science and Engineering Research Facilities

Topics

[R&D Facilities](#)[New Construction of R&D Facilities](#)[Previous](#)

| Name  | Measure(s)                      | Unit    | Years     | Survey |
|---|---------------------------------|---------|-----------|--------|
| <a href="#">Completion Cost of Current New Construction by Funding Source</a> ⓘ | is a measure of Completion Cost | Dollars | 2007-2019 | FAC    |

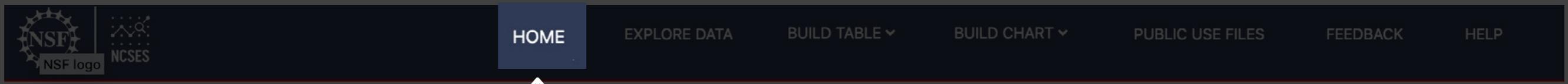
[Previous](#)

#### Key Topics:

[R&D Funding Source](#)[Survey Cycle and Other Technical](#)[Repairs and Renovation of R&D Facilities](#)[New Construction of R&D Facilities](#)[Location](#)[Institution Name](#)[Institution Characteristics](#)[Fields of Study](#)[More](#)



# Data Explorer Walkthrough



Come back to the homepage at anytime by clicking on the Home link

**NCSES Survey Data**  
Search or select a topic to get started.

All Surveys Search for anything, like age, sex, etc.

|                 |                           |                          |              |                                |                           |
|-----------------|---------------------------|--------------------------|--------------|--------------------------------|---------------------------|
| Fields of Study | Location                  | Invention and Innovation | R&D Activity | R&D Funding Received and Spent | R&D Funding by Government |
| R&D Facilities  | Colleges and Universities | Students and Education   | Workforce    | Demographics                   | Attitudes about Science   |

Don't know what you're looking for? [Browse all data](#)

## What can you do here?



# Data Explorer Walkthrough



**NCSSES Survey Data**  
This will take you to the Data Explorer  
to the Data Explorer

All Surveys ▾ Search for anything, like age, sex, etc.

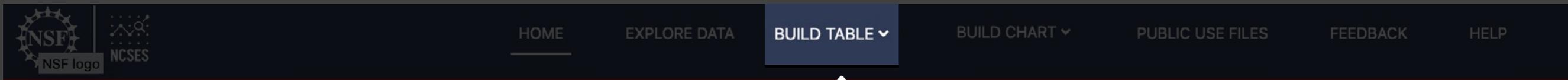
|                     |                               |                              |                  |                                    |                               |
|---------------------|-------------------------------|------------------------------|------------------|------------------------------------|-------------------------------|
| <br>Fields of Study | <br>Location                  | <br>Invention and Innovation | <br>R&D Activity | <br>R&D Funding Received and Spent | <br>R&D Funding by Government |
| <br>R&D Facilities  | <br>Colleges and Universities | <br>Students and Education   | <br>Workforce    | <br>Demographics                   | <br>Attitudes about Science   |

Don't know what you're looking for? [Browse all data](#)

## What can you do here?



# Data Explorer Walkthrough



You can build a survey table by clicking here



### NCSES Survey Data

Search or select a topic to get started.

All Surveys ▾ Search for anything, like age, sex, etc.

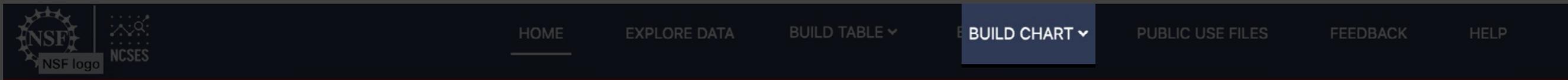
|                 |                           |                          |              |                                |                           |
|-----------------|---------------------------|--------------------------|--------------|--------------------------------|---------------------------|
| Fields of Study | Location                  | Invention and Innovation | R&D Activity | R&D Funding Received and Spent | R&D Funding by Government |
| R&D Facilities  | Colleges and Universities | Students and Education   | Workforce    | Demographics                   | Attitudes about Science   |

Don't know what you're looking for? [Browse all data](#)

## What can you do here?



# Data Explorer Walkthrough



**NCSES Survey Data**  
You can build a survey chart by clicking here



All Surveys ▾

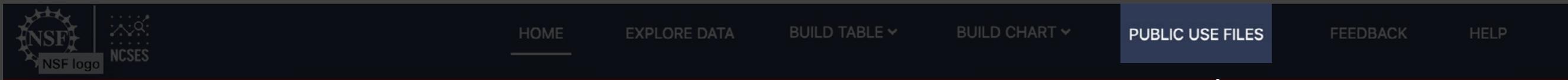
|                     |                               |                              |                  |                                    |                               |
|---------------------|-------------------------------|------------------------------|------------------|------------------------------------|-------------------------------|
| <br>Fields of Study | <br>Location                  | <br>Invention and Innovation | <br>R&D Activity | <br>R&D Funding Received and Spent | <br>R&D Funding by Government |
| <br>R&D Facilities  | <br>Colleges and Universities | <br>Students and Education   | <br>Workforce    | <br>Demographics                   | <br>Attitudes about Science   |

Don't know what you're looking for? [Browse all data](#)

## What can you do here?



# Data Explorer Walkthrough



## NCSES Survey Data

Search or select a topic to get started.

This will take you to the  
NCSES Public Use Files page



All Surveys ▾

Search for anything, like age, sex, etc.

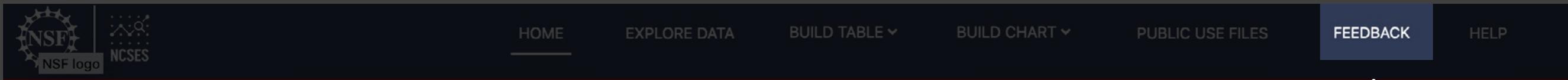
|                     |                               |                              |                  |                                    |                               |
|---------------------|-------------------------------|------------------------------|------------------|------------------------------------|-------------------------------|
| <br>Fields of Study | <br>Location                  | <br>Invention and Innovation | <br>R&D Activity | <br>R&D Funding Received and Spent | <br>R&D Funding by Government |
| <br>R&D Facilities  | <br>Colleges and Universities | <br>Students and Education   | <br>Workforce    | <br>Demographics                   | <br>Attitudes about Science   |

Don't know what you're looking for? [Browse all data](#)

## What can you do here?



# Data Explorer Walkthrough



## NCSES Survey Data

Search or select

Leave a comment, ask a question, report a bug or issue, contact our office, or join the NCSES Web User Community listserv

All Surveys ▾ Search for anything, like age, gender, location, etc.

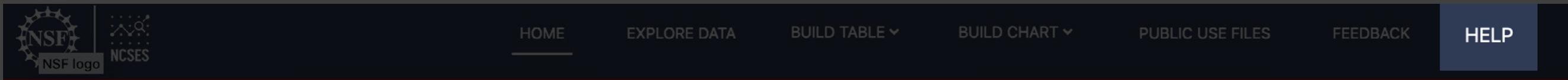
|   |  |   |   |   |  |
|---|--|---|---|---|--|
| <br>Fields of Study  | <br>Location                    | <br>Invention and Innovation | <br>R&D Activity | <br>R&D Funding Received and Spent | <br>R&D Funding by Government |
| <br>R&D Facilities | <br>Colleges and Universities | <br>Students and Education | <br>Workforce  | <br>Demographics                 | <br>Attitudes about Science |

Don't know what you're looking for? [Browse all data](#)

### What can you do here?



# Data Explorer Walkthrough



## NCSES Survey Data

Search or select a topic to get started.

Access help



All Surveys ▾ Search for anything, like age, sex, etc.

|                 |                           |                          |              |                                |                           |
|-----------------|---------------------------|--------------------------|--------------|--------------------------------|---------------------------|
| Fields of Study | Location                  | Invention and Innovation | R&D Activity | R&D Funding Received and Spent | R&D Funding by Government |
| R&D Facilities  | Colleges and Universities | Students and Education   | Workforce    | Demographics                   | Attitudes about Science   |

Help is different on each page

For example, when you are building a table or exploring data, clicking on help will provide walkthroughs for each page

Don't know what you're looking for? [Browse all data](#)

### What can you do here?



# Data Explorer Walkthrough



HOME

EXPLORE DATA

BUILD TABLE ▾

BUILD CHART ▾

PUBLIC USE FILES

FEEDBACK

HELP

You can click on the NCSES logo to return to the NCSES website

## NCSES Survey Data

Search or select a topic to get started.

All Surveys ▾

Search for anything, like age, sex, etc.

|   |  |   |   |   |  |
|---|--|---|---|---|--|
| <br>Fields of Study  | <br>Location                    | <br>Invention and Innovation | <br>R&D Activity | <br>R&D Funding Received and Spent | <br>R&D Funding by Government |
| <br>R&D Facilities | <br>Colleges and Universities | <br>Students and Education | <br>Workforce  | <br>Demographics                 | <br>Attitudes about Science |

Don't know what you're looking for? [Browse all data](#)

## What can you do here?