

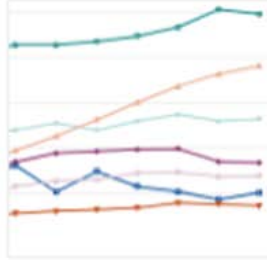
# Science & Engineering Indicators 2018

Broad-based, objective information on the U.S. and international S&E enterprise

## Full Report

[GO TO THE 2018 REPORT >](#)

Learn about S&E indicators in education; workforce; R&D; industry, technology, and the global marketplace; invention, knowledge transfer, and innovation; and public attitudes and understanding.



## Digest

The Digest is a condensed version of the main report, comprising a selection of indicators that draws attention to important trends.

[EXPLORE THE 2018 DIGEST >](#)



## Explore



### Topics

Select a Topic to see related content, or search the report by keyword.



### Data Sources

You can view Data Sources by chapter or by data provider.



### Downloads

See all download options, including full report PDF, data, and graphics.

## An Overview of the State of the U.S. S&E Enterprise in a Global Context



## Data

Detailed tabular data that can be used for independent analysis.

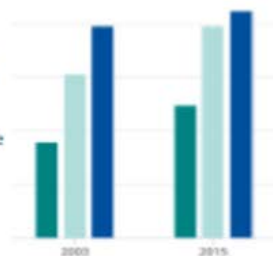
[SEE ALL DATA >](#)

Indicator	Year	Value	Unit
... (table content partially obscured) ...	...	...	...

## Figures

Interactive, visual representations of major findings discussed in the report. Figures are available for view or download as image files and PDFs, along with tabular source data.

[SEE ALL FIGURES >](#)



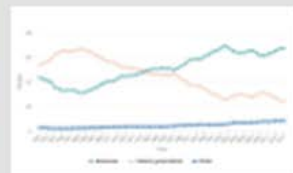
## State Indicators

Interactive data tool presenting U.S. state-specific trends in S&E.

[EXPLORE STATE INDICATORS >](#)



## Featured Content



### Sources of U.S. R&D expenditures

Business sector is the predominate source of funding for R&D performed in the United States.

[GO TO THIS CHAPTER >](#)

## More from the National Science Board

### Understanding the data

The NSB periodically produces reports, tools, and other resources focused on specific S&E topics that explore the policy implications of the *Indicators* data.

[VISIT THE NSB WEBSITE TO FIND ADDITIONAL PRODUCTS >](#)



# Update on Future Indicators: 2020 and Beyond

Beethika Khan  
Program Director  
SBE/NCSES/Science and Engineering Indicators

# Guiding Principles for Re-imagining *Indicators*

- Statute: “a report on indicators of the state of science & engineering in the United States” to Congress and the President by January 15 of even-numbered years
- Maintain high-quality data and analyses
- Improve user experience
- Statutory Report – Digest/Overview (or similar)
- Production and review efficiency and sustainability for NCSES & NSB

The screenshot displays the homepage of the Science & Engineering Indicators 2018 website. The main heading is "Science & Engineering Indicators 2018" with the subtitle "Broad-based, objective information on the U.S. and international S&E enterprise". The page is organized into several sections:

- Full Report:** Includes a link to "GO TO THE 2018 REPORT" and a brief description: "Learn about S&E indicators in education; workforce; R&D; industry, technology, and the global marketplace; invention, knowledge transfer, and innovation; and public attitudes and understanding." It features a line graph showing trends over time.
- Digest:** Described as "a condensed version of the main report, comprising a selection of indicators that draws attention to important trends." It includes a link to "EXPLORE THE 2018 DIGEST" and a thumbnail image of the 2018 Digest cover.
- Explore:** A navigation menu with sections for "Topics" (Select a Topic to see related content, or search the report by keyword), "Data Sources" (You can view Data Sources by chapter or by data provider), and "Downloads" (See all download options, including full report PDF, data, and graphics).
- An Overview of the State of the U.S. S&E Enterprise in a Global Context:** A prominent green box with a globe icon.
- Data:** "Detailed tabular data that can be used for independent analysis." Includes a link to "SEE ALL DATA" and a small table snippet.
- Figures:** "Interactive, visual representations of major findings discussed in the report. Figures are available for view or download as image files and PDFs, along with tabular source data." Includes a link to "SEE ALL FIGURES" and a bar chart comparing 2008 and 2014 data.
- State Indicators:** "Interactive data tool presenting U.S. state-specific trends in S&E." Includes a link to "EXPLORE STATE INDICATORS" and a map of the United States.
- Featured Content:** A section titled "Sources of U.S. R&D expenditures" with a line graph and text: "Business sector is the predominate source of funding for R&D performed in the United States." Includes a link to "GO TO THIS CHAPTER".
- More from the National Science Board:** A section titled "Understanding the data" with text: "The NSB periodically produces reports, tools, and other resources focused on specific S&E topics that explore the policy implications of the indicators data." Includes a link to "VISIT THE NSB WEBSITE TO FIND ADDITIONAL PRODUCTS" and the NSB logo.



# Vision for Re-imagined *Indicators*

## 1. The State of Science and Engineering in the U.S.

- Digest/Overview-like report
- Statutory mandated delivery on January 15th of 2020

[Control click for detail](#)

## 2. Thematic Reports on the S&E Enterprise

- Produced on a “flow basis”

[Control click for detail](#)

## 3. Special Analytic Reports Prepared by NCSES

- After 2020; new indicators, emerging issues

## 4. NSB Policy Reports

- Staggered thematic reports enhance frequency and continuity



# Components of Re-imagined *Indicators*

## Box 1. The State of Science and Engineering in the U.S.

- Statutory delivery: January 15, 2020
- Digital and print
- Short report; selection of important indicators
- Narrative text with compelling data presentation
- **Initial work** by NCSES
  - Prototype development
  - After NCSES feasibility assessment, distribute for Board review

[Control click to go back](#)



# Components of Re-imagined *Indicators*

## Box 2. Thematic Reports on the S&E Enterprise

- "Flow" basis (not tied to statutory date); synchronized with data availability
- Developed by NCSES (with Board guidance)
- Digital; policy relevant, policy neutral
- Streamlined versions of current topical chapters
- Scalable
- **Initial work** by NCSES
  - Topic organization and coverage options for 2020
  - Assessing feasibility of digital dissemination on "flow" basis

[Go back with control click](#)

