



Science and Engineering Indicators: State Data Tool Geospatial Interest Group Lightening Presentation

National Science Foundation
National Center for Science and Engineering Statistics (NCSES)
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- The National Center for Science and Engineering Statistics (NCSES) is one of the 13 principal statistical agencies situated within the National Science Foundation (NSF).
- NCSES is responsible for collecting and reporting on:
 - Research and development
 - The science and engineering workforce
 - U.S competitiveness in S&E and R&D
 - The condition and progress of STEM education in the U.S.



- NCSES designs, supports, and directs periodic national surveys and performs a variety of other data collections and research. Our core activities entail:
 - The collection, analysis, and dissemination of statistical data related to the U.S. and other nations.
 - Preparing Science and Engineering Indicators (SEI)
 - One chapter in SEI provides state specific information about a variety of science, engineering, technology, and education measures.
 - By seeing a state's performance and being able to compare it with other states and changes over time, policymakers, educators, and other users can better assess and enhance programs.



Question 1

- A recruiter for a company that is seeking newly minted S&E degree holders is trying to decide where to best spend his recruiting travel budget for the upcoming year. The recruiter is only allowed travel to two neighboring states.
 - Select 'View a Single Indicator'
 - Select 'Compare Groups of Indicators'/'Higher Ed'/'Advanced S&E Degrees'
 - Across All Years – displays line charts for the different states and overall U.S. values.
 - Users can select/de-select states by clicking on them.
 - Compare states to each other and to overall U.S. trend
 - Mouse-overs display the actual data.



Question 2

- As a parent, I'm particularly interested in education for my grade school student. I have to move out of DC. Where should I go if my priorities are to work in an SEH field and get a good education for my child?
 - Select 'Customize Your Own Indicators'
 - Elementary and Public School
 - 4th grade proficiency, all students.
 - Per-pupil expenditures
 - 8th Grade math proficiency
 - Workforce
 - 8-36: Social Scientists in All Occupations
 - 8-50: High SET Employment/All Business Establishments
 - 8-31: Individuals in S&E Occupations as a Percent of All Occupations