

# Federal Research Investment from NSF: OREGON

## About NSF

As the federal agency charged with the advancement of scientific progress across all of the fields of science and engineering, the National Science Foundation (NSF) is the cornerstone of America's basic scientific research enterprise. NSF's seven directorates fund research in diverse disciplines as well as interdisciplinary, cross-cutting initiatives. Support for education research comes primarily from the Education and Human Resources Directorate and also from the Social, Behavioral and Economic Sciences Directorate.

## Examples of NSF-funded Education Research in Oregon

- **Using Big Data and Visual Analytics to Investigate the Long-term, Cascading Effects of Informal STEM Learning:** Researchers at Oregon State University, University of Idaho, and University of Texas at Dallas, are studying a range of data in online social networks to identify evidence of the long-term impact of informal STEM education. Research findings will inform the design and development of a data-analysis tool for use by education practitioners to improve STEM learning experiences online, through television and film, and at informal education institutions.
- **Science in the Learning Gardens: Factors that Support Racial and Ethnic Minority Students' Success in Low-Income Middle Schools:** Portland State University researchers are bringing underrepresented youth into gardens at a critical time in their intellectual development to broaden the factors that support motivation to pursue STEM careers and educational pathways. The project will adapt, organize, and align two disparate sets of existing resources into the project curriculum: 6th grade science curriculum resources, and garden-based lessons and units. The curriculum will be directly aligned with the Next Generation Science Standards (NGSS).



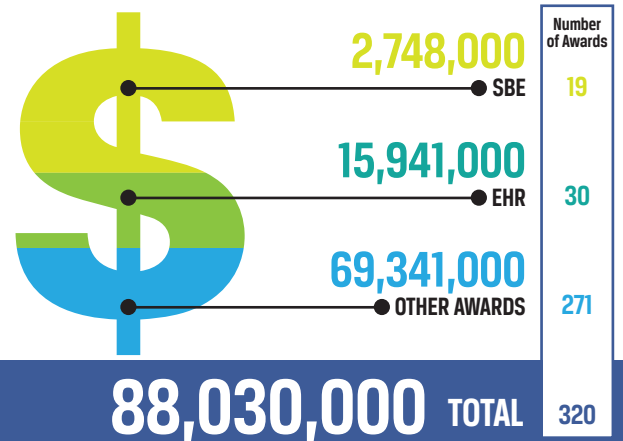
## Top 5 NSF-funded Universities in Oregon

1. Oregon State University (\$49,952,000)
2. University of Oregon Eugene (\$14,150,000)
3. Portland State University (\$6,388,000)
4. Oregon Health and Science University (\$4,704,000)
5. Willamette University (\$892,000)

## NSF in Oregon

- Oregon received 320 awards in FY 2015.
- Oregon ranks 22<sup>nd</sup> overall in NSF funding.
- Oregon received over 1% of the total NSF award budget in 2015.

## Oregon Funding



# Federal Research Investment from IES: **OREGON**

## About IES

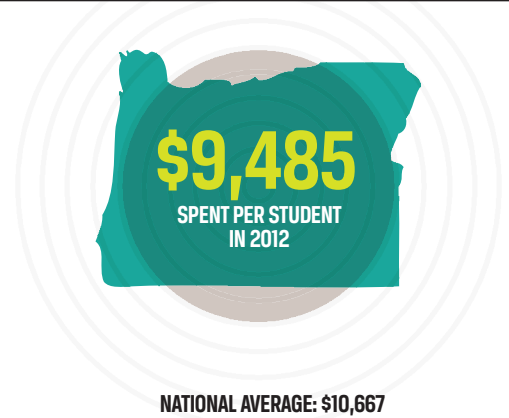
The Institute of Education Sciences (IES) is the federal research agency within the U.S. Department of Education that builds knowledge and informs understanding of education from early childhood through postsecondary to adult workforce.

Research, statistics, and evaluations funded by IES provide policymakers and practitioners with reliable information on the condition and progress of education, educational practices that support learning and improve academic achievement, and the effectiveness of education programs.

## IES Resources for Schools and Educators in Oregon

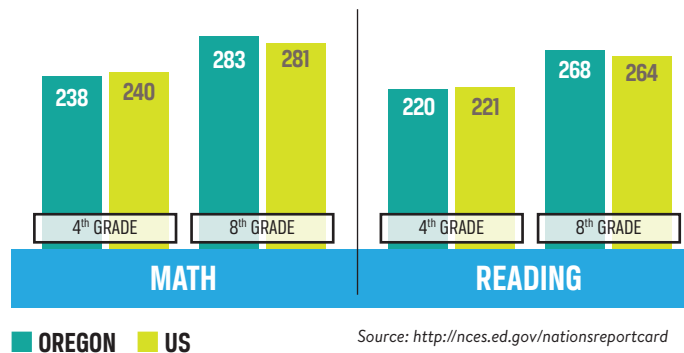
- Project ALDER is part of Oregon’s State Longitudinal Data System. The Education Data Explorer provides an interactive map to find assessment data beginning in the 2003-04 school year and discipline data starting from the 2007-08 school year.
- Researchers at the University of Oregon are developing and testing the Freshman Success Model, which is connecting peer mentors with ninth grade students in urban Oregon high schools to promote school engagement by using School-Wide Positive Behavioral Interventions and Supports.
- The Northwest Regional Educational Laboratory serves the applied educational needs of Alaska, Idaho, Montana, Oregon, and Washington. The Oregon Department of Education, the Oregon Office of Community Colleges and Workforce Development, and additional state education groups are members of the Oregon College and Career Readiness Alliance. Representatives of these organizations are working together to improve alignment across the P-16 continuum, increase the use of college and career readiness evidence to inform policies, and support student access to postsecondary credit-bearing courses and career certificate programs.

## Average Spending Per Student on Education



Source: National Center for Education Statistics, Common Core of Data (CCD), 'School District Finance Survey (F-33)'

## Oregon Performance on the 2015 National Assessment of Educational Progress



Source: <http://nces.ed.gov/nationsreportcard>

## IES Online Resources

- What Works Clearinghouse:  
<http://ies.ed.gov/ncee/wwc/findwhatworks.aspx>
- Education Resources Information Center:  
<http://eric.ed.gov>