

GREATNESS STEMS FROM IOWANS

GOVERNOR'S STEM ADVISORY COUNCIL

2014-2015

DATA DIGEST

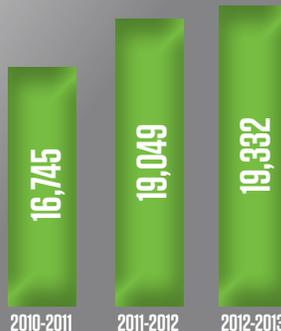
The Iowa Governor's STEM Advisory Council is a public-private partnership of educators, business leaders, non-profits and local and state government officials collaborating to increase student interest and achievement to meet the talent demand across Iowa. The STEM Council is led by co-chairs Lt. Governor Kim Reynolds and Kemin Industries President and CEO Dr. Chris Nelson.

SCALE-UP

of Exemplary STEM Programs

15% increase in degrees awarded in STEM fields from Iowa's community colleges, 4-year colleges and universities since 2011.

STEM COLLEGE GRADUATES



96% of Business Hosts agree or strongly agree that "Teacher Externs provide significant contributions."

84% of Teacher Externs' students express greater interest in STEM jobs, especially for girls.

93% of teachers agree Externships are more valuable than any other professional development.

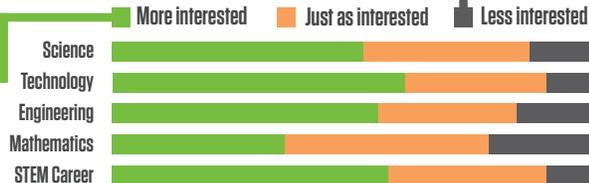
IOWA STEM EXTERNSHIPS for Teachers

2,135 educators implemented a program in 2014-15.

More than **100,000** Iowa youth impacted in 2014-15.

All 10 Scale-Up programs in 2014-15 had a positive effect on student interest in STEM topics and careers.

STATS of 2014-15



Microsoft IT Academy

SINCE NOVEMBER 2013: 150 schools registered
1,916 students certified
294 teachers certified

PUBLIC SUPPORT OF STEM

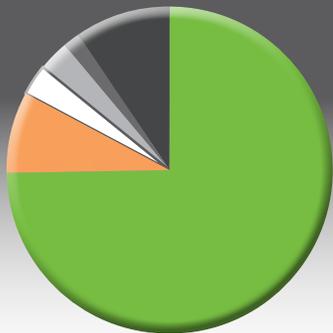
94% In a 2015 statewide survey, 94% of Iowans think STEM education should be a priority in their local school districts.

About **75%** of past Scale-Up educators are sustaining their STEM programs long after seed funding from the STEM Council.

The number of teachers in Iowa with at least one teaching endorsement in science or mathematics increased by 11% from 2012 to 2015.

\$5.2M Legislative Appropriation
2014-2015

WHERE DOES THE FUNDING GO?



- 75% direct to Learners and Educators
- 8% on Regional STEM Network
- 3% on STEM Initiative Evaluation
- 3% on Public Awareness Campaign
- 2% on Conferences and Events
- 9% on Operations and Coordination

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PRIVATE SECTOR INVESTMENT

\$362,365 in 2014-2015

- \$100,000** from Hy-Vee, Inc.
- \$50,000** from Principal Financial
- \$35,000** from Rockwell Collins
- \$25,000** from MidAmerican Energy
- \$20,000** from Alliant Energy
- \$10,000** from AT&T
- \$10,000** from Monsanto
- ...and **\$187,365** from 44 others at IowaSTEM.gov/Corporate-Partners

COST-SHARING SAVINGS

\$5,070,284 in 2014-2015

- \$108,602** by Strategic America
- \$300,000** by Regional Network Hubs
- \$804,087** by STEM BEST Partners
- \$83,750** by Externship Business Hosts
- \$3,773,845** by Scale-Up Providers

GRANTS

\$905,000 in 2014-2015

- \$400,000** for State STEM Evaluation
— \$1.2M 3-year grant from NSF
- \$180,000** for Noyce STEM Teacher Scholarships
— \$900K 5-year grant from NSF
- \$325,000** for Teacher Externships
— \$1.3M 4-year grant from NSF



SKILLS GAINED

INTEREST GAINED

PARTNERS GAINED

GREAT OUTCOMES

More than 81% of educators reported that they gained skills and confidence in teaching STEM topics as a result of their participation in STEM Scale-Up programs.

Among students who participated in a STEM Scale-Up program from 2012-14, 9 out of 10 reported higher interest in at least 1 STEM subject or career following participation.

Schools reported developing 376 new partnerships with local businesses and industries in their communities to enhance students' opportunities to tie STEM subjects to future careers during the 2014-2015 school year.

...and OTHER IOWA STEM INDICATORS

18%

The percentage of Iowa students meeting benchmarks for science on the ACT increased 18% from 9,200 students in 2011 to 10,900 students in 2015.

6 POINTS HIGHER

In 2014-2015, all grade levels of students who participated in a STEM Scale-Up program scored an average of six percentage points higher in National Percentile Rank on the Iowa Assessments in both mathematics and science compared to students statewide.

69%

Minority student STEM degree completion at Iowa's community colleges has increased by 69% since 2010, including degrees in health science, information technology, architecture and construction.

Data Source: 2014-15 Iowa STEM Evaluation Report produced by the Center for Social and Behavioral Research (University of Northern Iowa), Research Institute for Studies in Education (Iowa State University), and Iowa Testing Programs (University of Iowa).