

GREATNESS STEMS FROM IOWANS

GOVERNOR'S STEM ADVISORY COUNCIL

www.iowaSTEM.gov

2014-2015

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

21% increase in degrees awarded in STEM fields from Iowa's community colleges, 4-year colleges and universities since 2010.

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, significantly for girls.

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

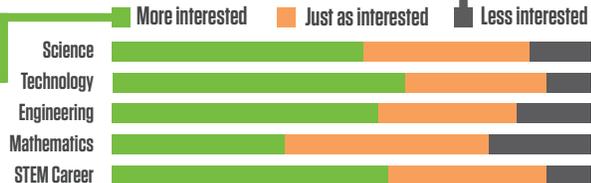
Real World EXTERNSHIPS for Teachers

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

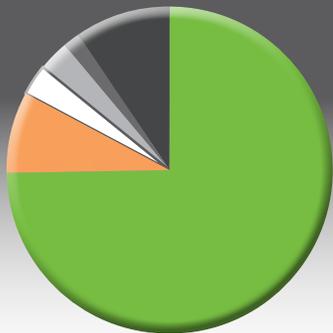
PUBLIC SUPPORT OF STEM

From **76% in 2012 to 88% in 2014**, Iowans agreed or strongly agreed that more companies would move or expand to Iowa if the state had a reputation for workers with great science and mathematics skills.

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

\$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, Coordination

PRIVATE SECTOR INVESTMENT

\$362,365 in FY2015

\$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 lowaSTEM.gov/Corporate-Partners

COST-SHARING SAVINGS

\$5,070,284 in FY2015

\$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 for FY2015

\$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

GREAT OUTCOMES

SKILLS GAINED

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.

INTEREST GAINED

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.

PARTNERS GAINED

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

...and OTHER IOWA STEM INDICATORS

24%

The percentage of Iowa students meeting benchmarks for science on the ACT increased 24% from 8,800 students in 2011 to 10,800 students in 2014.

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 than students statewide in both mathematics and science on the Iowa Assessments.

69%

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