

# GREATNESS STEMS FROM IOWANS

GOVERNOR'S STEM ADVISORY COUNCIL

[www.iowaSTEM.gov](http://www.iowaSTEM.gov)

Begun in 2011 and led by co-chairs Lt. Governor Kim Reynolds and Vermeer CEO Mary Andringa, the Governor's STEM Advisory Council is a partnership of educators, business and industry, nonprofits, state agencies and community leaders working to increase student interest and achievement in STEM and promote STEM economic development.

**SCALE-UP**  
of Exemplary STEM Programs

**3,106** classrooms and clubs engaged in 2013-14.  
More than **100,000** Iowa youth involved in 2013-14.  
**All 9** Scale-Up programs in 2013-14 had a positive effect on student interest in STEM topics and careers.

## STEM College Graduates

**43%** increase in degrees awarded in STEM fields from Iowa's 4-year colleges and universities since 2009-2010.

**88%** of teachers agreed Externships were relevant to the courses they teach in school.  
**87%** of teachers agreed Externships impacted their understanding of 21st century skills.  
**93%** of teachers agreed Externships were more valuable than any other professional development.

**Real World  
EXTERNSHIPS  
for Teachers**



The number of teachers in Iowa with at least one teaching endorsement in science or math increased by 13% from 2012 to 2014.

## Microsoft IT Academy

Since November 2013:

**150** schools registered  
**1,016** students certified  
**169** teachers certified

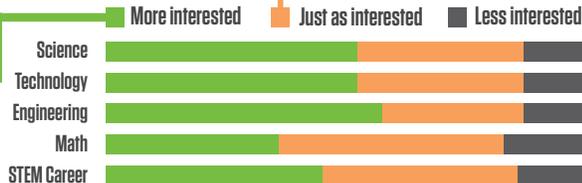
## STEM AWARENESS

From 2012 to 2014, awareness of STEM has increased from **26% to 41%**.

That's an estimated **963,078** Iowans who know about the importance of STEM education.

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

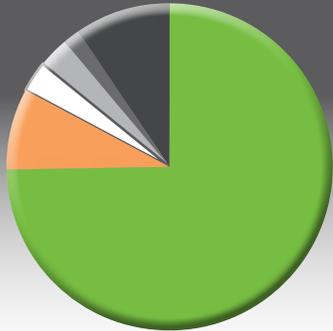
## STATS of 2013-14



# \$5.2M

Legislative  
Appropriation  
2014-2015

WHERE DOES THE FUNDING GO?



- 75% on Learner Programs
- 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

**\$462,500** in 2013 and 2014

**\$100,000** from John Deere Foundation  
**\$100,000** from MidAmerican Energy  
**\$51,000** from Principal Financial  
**\$36,000** from Rockwell Collins  
**\$21,000** from Google, Inc.  
**\$20,000** from Lennox Industries  
**\$20,000** from Verizon  
...and **\$114,500** from 35 others  
at [IowaSTEM.gov/Corporate-Partners](http://IowaSTEM.gov/Corporate-Partners)

## COST-SHARING SAVINGS

**\$3,549,689** in 2014

**\$160,000** by Strategic America  
**\$300,000** by Regional Hubs  
**\$200,000** by STEM Classroom Partners  
**\$27,550** by Externship Business Hosts  
**\$2,862,139** by Scale-Up Providers

## GRANTS

**\$1,008,000** for FY15

**\$1.2M** for State STEM Evaluation  
— 3-year grant from NSF  
**\$900,000** for Noyce STEM Teacher Scholarships  
— 5-year grant from NSF  
**\$1.3M** for Teacher Externships  
— 4-year grant from NSF  
**\$103,000** for Physics Workshops  
— Carver Charitable Trust

# GREAT OUTCOMES

## SKILLS GAINED

More than 75% of educators reported that they gained skills and confidence in teaching STEM topics as a result of their participation in Scale-Up programs.

## INTEREST GAINED

Among students who participated in a 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

Roughly 84% or 167 schools or organizations reported developing a new partnership with a businesses in their area to enhance students' opportunities to learn STEM topics during the 2013-2014 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 2012 to 10,800 students in 2014.

# 80% LIKE STEM

Approximately 80% of students who took the Iowa Assessments from 2012 to 2014 reported being interested in STEM careers, or roughly 139,347 students were either "very interested" or "somewhat interested" in a STEM career across all grades from elementary to high school.

# >200%

Minority student STEM degree completion at four-year institutions increased from 490 degrees in 2009 to 1,877 degrees in 2013. Community colleges saw a rise in completions from 244 degrees in 2009 to 775 in 2013.