



— 2016 IOWA STEM AT A GLANCE

# KEY INDICATORS FOR STEM IN IOWA



## STEM EDUCATORS

**596** STEM-related  
teaching endorsements  
**+ 21%** from 2011-12

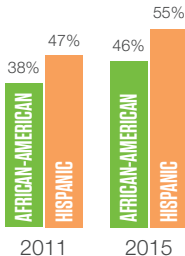
**78%** of STEM Scale-Up  
Program educators have  
more confidence to teach  
STEM content.

## STEM INTEREST



Bachelor's Degree

**55%** of ACT  
students aspire to  
a STEM degree  
**+ 6%** since 2011

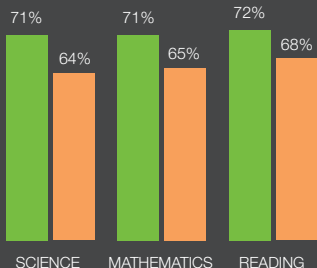


More females  
with STEM  
degrees at  
Iowa's public  
universities  
since 2012-13

# STEM SCALE-UP PROGRAM

1

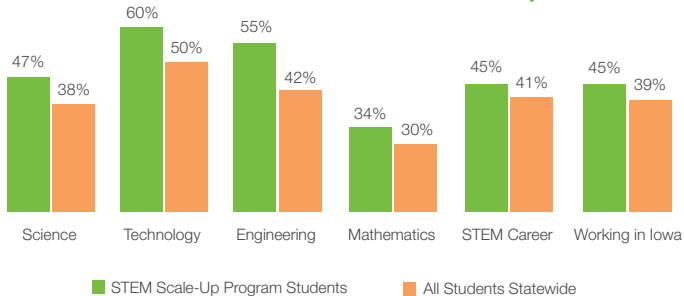
## K-12 STUDENT ACHIEVEMENT IN STEM



On the Iowa Assessments, **students who participated in the STEM Scale-Up Program** scored higher than **students statewide** with an average of six percentage points higher in science, seven higher in mathematics and four higher in reading.

2

## K-12 STUDENT INTEREST IN STEM



# BUILDING SCHOOL + BUSINESS PARTNERSHIPS

## STEM BEST®

Businesses Engaging Students and Teachers



Currently, **18 STEM BEST** models awarded



Cost-shared  
**\$1.5 MIL**



Brought in **232 business partners**  
on their projects



**347** Teacher Externs  
(Six-week immersions)



**118** Iowa Workplaces

**92%**

**of Teacher Externs agree**  
the experience was their most  
valuable professional development.



# CODE IOWA



**499** Iowa schools  
and organizations

**590,538**

Iowans participated in the 2015 "Hour of Code"



**2,492 student  
certifications earned**

since 2014 by 150 schools across Iowa

**MICROSOFT IMAGINE ACADEMY**

# REGIONAL STEM NETWORK



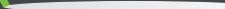
**29** Family STEM Festivals were hosted that impacted **16,350** Iowans in 2015-16.

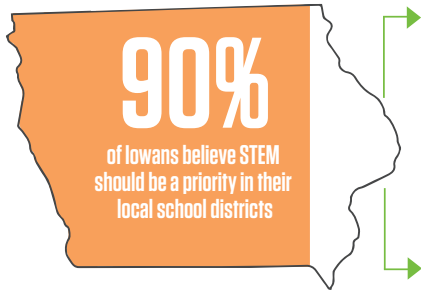
**245** different speaking engagements occurred at conferences, clubs, PTAs and more.

More than **100,000** of Iowa's K-12 students experienced **14** STEM programs by way of **2,500** educators in 2015-16.

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

**GREATNESS  
STEMS  
FROM IOWANS**



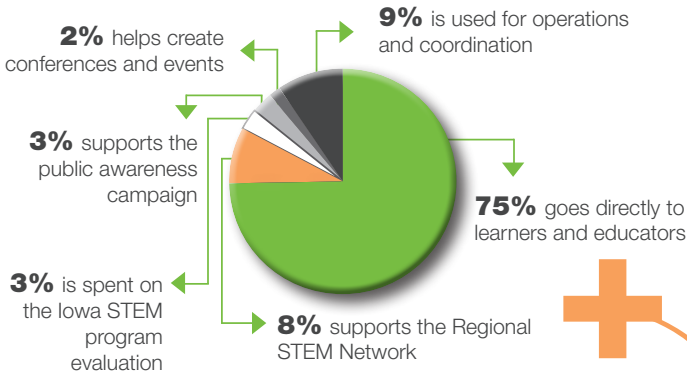


**88% of Iowans agree or strongly agree** that an increased focus on STEM education will improve Iowa's economy.

**87% of Iowans support** state efforts to devote resources and develop initiatives to promote STEM education in Iowa.

## PUBLIC SUPPORT OF IOWA STEM

# \$5.2 MIL LEGISLATIVE APPROPRIATION





**\$4.4 MIL**

# ADDITIONAL NON-STATE INVESTMENT IN STEM

**\$559 K**

+

**\$804 K**

+

**\$3 MIL**

**Corporate Partners**

**Grants**

**Cost-Sharing**

**20%**

increase in  
investments  
over 2014-  
2015.

National Governors  
Association

National Science  
Foundation

Iowa Department of  
Natural Resources

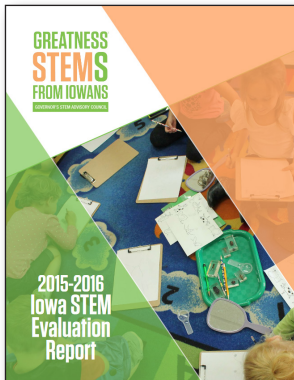
STEM Scale-Up Program Providers

Regional Hub Institutions

STEM BEST® Partners

Strategic America

STEM RLE Partners



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information on  
Iowa STEM?

**Visit:**

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