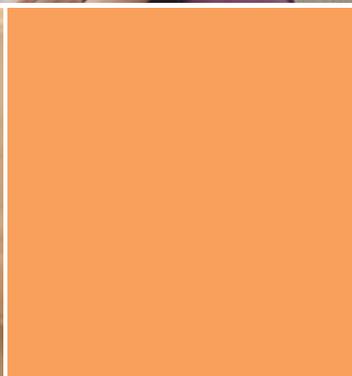




GREATNESS[®] STEMS FROM IOWANS

GOVERNOR'S STEM ADVISORY COUNCIL



What is STEM?

STEM is an interdisciplinary approach that helps students develop technical skills and make connections from the classroom to the world of work fostering creativity, nurturing curiosity and incorporating critical thinking, collaboration and problem solving through real-work activities. Ultimately, this core discipline shapes the future of the economy in Iowa, the nation and the world.

Why does this matter?

Iowa STEM occupations make up 17% of all Iowa jobs and are projected to grow at a rate of 1.2% annually through 2024 (as compared to 0.9% annual growth across all other occupations). STEM careers with Iowa business and industry make this core discipline a vital economic development driver for the growth of the state. As such, it is desirable for Iowa youth to be skilled and interested in STEM career opportunities.

Who is leading this effort?

The Iowa Governor's STEM Advisory Council is committed to helping regain Iowa's historic leadership position in education, increase student interest and achievement in STEM, cultivate STEM-literacy and promote economic development and community vitality in Iowa. Thanks to ongoing, bipartisan support of the Iowa Legislature, this effort continues to gain momentum and demonstrate impact. The STEM Council is led by co-chairs Gov. Kim Reynolds and Accumold President and CEO Roger Hargens, along with Council membership comprised of dedicated stakeholders from education, business and industry, nonprofits, agencies and legislature.

▶ Current STEM Events for Iowa Families



STEM Day at the Iowa State Fair

The STEM Council partners with more than 25 Iowa organizations to fill the State Fair's Grand Concourse with hands-on STEM activities for thousands of families and students of all ages.

For more information about STEM Day at the Iowa State Fair, visit:

www.iowaSTEM.gov/STEM-Day-Fair



Regional Family STEM Festivals

Each Iowa STEM Region hosts several family STEM festivals throughout the year to offer hands-on learning experiences provided by businesses and educational organizations local to each community.

Visit the Iowa STEM YouTube Channel and click on the "Cedar Valley Family STEM Festival" video.

▶ Programs

STEM Scale-Up Program

A menu of exemplary STEM programs available to Iowa educators across the state at little to no cost. www.iowaSTEM.gov/Scale-Up

STEM BEST® (Businesses Engaging Students and Teachers)

School+business partnerships that provide work-based learning experiences for students. www.iowaSTEM.gov/STEMBEST

Iowa STEM Teacher Externships

Secondary STEM teachers immersed in local businesses and agencies for 6 weeks in the summer. www.iowaSTEM.gov/Externships

I.O.W.A. STEM Teacher Award

An award sponsored by Kemin Industries to honor Iowa educators inspiring students in STEM subjects. www.iowaSTEM.gov/TeacherAward



STEM Scale-Up at Howard-Winneshiek Community School District



STEM BEST at Assumption High School



Iowa STEM Teacher Extern at John Deere



I.O.W.A. STEM Teacher Award at Edwards Elementary

The six Iowa STEM Regions and their higher education Network Hub Institutions:



iowaSTEM.gov/Seal

The STEM Council's Seal of Approval recognizes a non-Council program or event that exemplifies and contributes to the STEM Council's mission. For more information or to apply for the Seal of Approval, visit www.iowaSTEM.gov/seal.

▶ PreK-12 Student Interest and Achievement in STEM

Students who participate in STEM Council programs show gains in interest and achievement in STEM. And, those students are also more interested in working in Iowa after graduation. A high priority for the STEM Council is to equalize STEM access and opportunity across geographic, demographic, gender and racial/ethnic groups.

Figure 1 **STEM interest among Scale-Up students vs. students statewide**

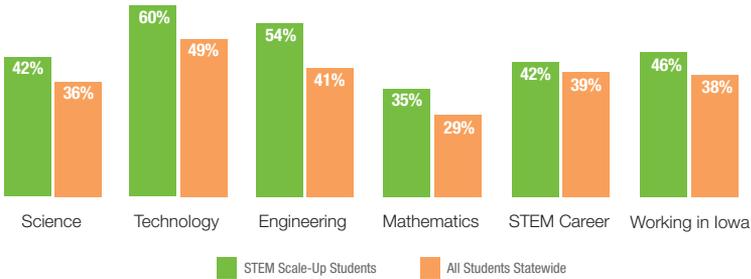
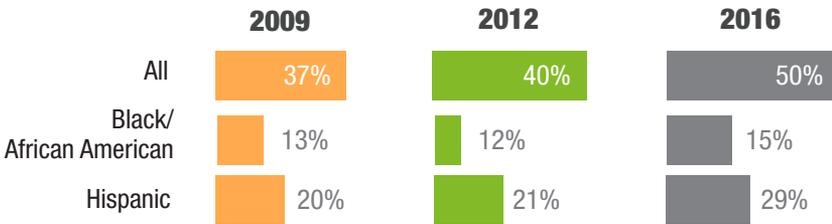


Figure 2 **Percentage of Iowa students meeting college readiness benchmarks in science based on ACT® scores**



Data Source: Center for Social and Behavioral Research, University of Northern Iowa

Every citizen encounters STEM on a daily basis in making decisions about parenting, health care, transportation, leisure and overall quality of life. Help us spread the word and contribute to Iowa's STEM future for the benefit of our youth and the health of our economy.

Join the conversation by using the hashtag #STEMinYourWorld, visiting our website at www.iowaSTEM.gov and e-mailing your thoughts to Info@iowaSTEM.gov because Greatness STEMs from Iowans like you.

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