Programs of Iowa's STEM Council

Regional STEM Network: Six regions, each operated by a regional STEM manager housed at a hub institution, and each guided by a Regional STEM Advisory Board. School-business matching, regional communications and events, and local implementations of Council programs.

1. **STEM Scale-Up Program**. Exemplary S-T-E-M programs in engineering, computers, energy, mathematics, basic science, and more, provided to ~2,500 PreK-12 educators and ~100,000 children throughout the state.

2. **STEM BEST (Businesses Engaging Students and Teachers).** A total of 8 (so far) community collaborations involving school and business partnerships.

3. **STEM RLE (Redesigned Learning Environments).** A total of 13 (so far) re-designed 21st century learning spaces along with the preparation of educators capable of conducting student-centered, active, problem- solving instruction, making purposeful connections to local business partners.

4. **Real World Externships for Teachers of Mathematics, Science and Technology.** Six-week, paid, summer professional development in local industries and businesses for STEM teachers in Iowa.

5. **STEM Festivals.** Engaging, free, hands-on educational experiences (45 last year across Iowa) for preK-12 youth and their families.

6. **I.O.W.A. STEM Teacher Award.** Kemin Industries sponsored award to honor certified K-12 teachers in Iowa who teach a science, technology, engineering and/or mathematics subject and who are inspiring Iowa's students to develop a passion for STEM subjects.

7. **Code Iowa**. Partnership with Code.org on the "Hour of Code" during national Computer Science Education Week. Some 600 Iowa schools commit to doing an Hour of Code.

8. **Microsoft IT Academy**. A software and systems certification program that bridges the world of education with the world of work. 150 Iowa schools are involved, thousands of kids have earned certifications.

9. **STEM Seal of Approval.** Ten (so far) outstanding non-Council programs affiliated through common goals, high quality.

10. **STEM Teaching Endorsement.** Three universities (so far) with at least 10 more shortly, producing STEM teachers.

11. **STEM @ State Fair.** Annually engages about 10,000 Iowans via dozens of exhibits, stage acts, vendor partners.

12. **STEM @ State Capitol.** Annually engages legislators via dozens of exhibit partners and corporate-sponsored lunch.

13. **Annual State STEM Summit.** Four-to five hundred attendees learn from and contribute to Iowa STEM.

14. **STEM Messaging Campaign.** With Strategic America, staff training in communications, print, radio, and television creations, event promotions, branding, and more.

15. **OTHER RESOURCES PRODUCED BY STEM COUNCIL**

    a. **Business Engagement Toolkit.** Programs and guidelines that engage business and education in STEM.

    b. **STEM Program Evaluation & Report.** Conducted by a consortium of evaluation centers at the University of Northern Iowa, the University of Iowa and Iowa State University.

    c. **STEM On-line**: Website - daily maintained and updated array of resources, data, and information. Twitter, Instagram, Facebook communication platforms updated routinely, frequently.

    d. **STEM video library**. A growing array of public awareness videos on Youtube at https://www.youtube.com/user/iastem.

Active Working Groups: Focused on Council priorities: Computer Science, Ag. Science, Counselors, Volunteering, Arts, Informal/Nonformal, Broadband, 4-year and Community College connections, and others convened as needed (e.g., proposal or award reviewers, website design, event planning, etc.).