SC Grand Challenges Team Goals

1 Engage individuals and organizations in advocating for quality STEM education

By June 30, 2020, the task force will increase communications among networks and stakeholders of education, business, community, and economic development to advocate for quality STEM education in community, school and out-of-school learning settings.

2 Build awareness of the value of STEM education and career opportunities across the community

By June 30, 2020, the task force will increase communications and connections between educators, business sponsors, and economic development leaders by developing a virtual infrastructure for meetings and accessing STEM resources.

3 Expand educators' STEM content knowledgeand career awareness through professional learning experiences that engage SC's STEM business/industry experts

- Build awareness for STEM opportunities in the state with a focus on STEM careers.
- Seek community partnerships beyond financial contributions
- Create a STEM workforce pipeline of opportunities
- Set STEM focus standards for each grade level and list possible partnerships that align to the content (i.e. Kindergarten – Transportation)

4 Build leadership capacity of STEM educators, including school & district administrators, both in schools and across the community

By June 2020, we will:
- develop and implement a plan to increase STEM leaders in a pilot district in SC.
- create a STEM leadership cohort, sponsored and supported by SCCMS and/or business and industry partners.
- provide support for administrators and teacher leaders as they grow in STEM leadership roles.

5 Recruit and retain STEM educators through financial and other incentives

- Continue to enhance the STEM Educator of the Year program with the support of S.C. Future Minds.
- Grow a network of STEM educators to share knowledge / resources and showcase STEM teacher success. Initial focus for this goal is on social media.
- Seek connections with businesses to establish opportunities for co-teaching and externships.
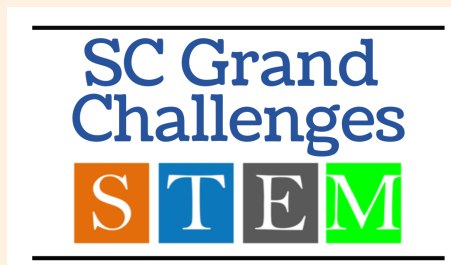
SC STEM
Grand Challenges
Team Updates - November 2019

We have a new logo!

Aligns with other SCCMS logos. Title stands out differently with its unique font style and color, closely tied to other colors.

SC Grand Challenges STEM

1 — Advocacy for Quality STEM Education

Seeking additional team members: K-12 Education Leader, Informal Education Leader, Professional STEM Education Organization Leader, Business Leader, Economic Development Leader, and Civic Leader or Community-elected Official

Future Meetings: Virtually meet every other month (October 2019, December 2020, February 2020, April 2020, and June 2020)

Action Steps:
- Identify individuals and organizations who are advocating for quality for quality STEM education through events and programs.
- Identify professional networks and organizations (such as NSTA, ITEEA, NCTM, CSTA, SC Arts Alliance, and others) and research their advocacy programming and resources;
- Adapt and model an existing advocacy programming resource or toolkit to reflect South Carolina's identification of quality STEM Education;
- Communicate the advocacy toolkit/resource with networks and stakeholders to act in advocating for quality STEM education

Team Leader: Carmelina Livingston
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2 — Next Steps

Action Steps:
- Identify key stakeholders and lead contacts in task force members' areas;
- Research and compile list of local resources for each identified area;
- Determine the best approach to streamline available STEM resources and marketing tools (i.e. soon-to-be adopted definition, STEMLinx, Clearinghouse of local resources, etc.) and to make this available to other communities;
- Communicate the model developed by this task force to increase community awareness through virtual marketing tools.

Seeking Additional Team Members: Business Leader, Economic Development Leader, Tech Savvy Member, Parent, Civic Leader, or Community-elected Official

Next Meeting Mid-November: Assess existing state of community engagement and determine ways to expand current efforts

Team Leader: Rhonda Willis
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3 — Next Steps

- Continue building our list of Business and Industry partners willing to be available for teacher tours. For now, we are only building our list and not scheduling anything. Once we have a nice representation from across the state, we will have a virtual meeting with our Business and Industry Partners to decide what is needed on these tours.
- As we are working with standards, be open to those that match SC workforce development and begin building a document of these standards across content areas.
- Use networking opportunities to **find more Business and Industry partners** for our Grand Challenge #3.
- **Next Virtual Meeting:** November 25th from 4:00 - 5:00

Team Leader: Alice Gilchrist
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4 — Smaller Breakout Teams (Next Steps)

Storyline - need an overall storyline for training to include expectations, deliverables, outcomes, participants, cohort model, onsite vs. virtual

Observations Protocols - need to develop observation tool, pre/post conference guidelines, peer observation plan, coach/admin support, model teacher walkthroughs

Selection Criteria (Model Teachers) - need to develop criteria for model teachers/classrooms; will different classrooms show strength in different content areas?

Flyer Criteria (Districts) - need to develop information flyer to share with districts to gain participation/internet; identify criteria and info to share

TBD - Identify High - Quality STEM "look for" (Model classroom/teacher should demonstrate/exhibit); develop or identify outcomes of the Pilot.

Team Leader: Dana Thompson
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5 — STEM Educator Incentives

The group met virtually in September to refine team goals. Ongoing needs to build capacity for this team include **additional stakeholders** to serve on the team and any suggestions of business / industry persons who might be interested in supporting this work by way of **funding, partnerships or other incentives.**

Team Leader: Tracey Campbell
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