

**Nominee Name**

XXXXXXXXXX

**Nominee Title or Position**

STEM Instructor and Building Tech Coach

**Nominee District/Organization**

XXX Public Schools

**Nominee Email Address**

xxx@xxx.org

**Nominee Grade(s) Taught (currently or previously)**

XX

**Nominee Subject(s) Taught (currently or previously)**

XXXXXXXXXXXX

**Summary of Relevant Experience**

XXX started at Southwest Middle School in 2017 and created the STEM offerings at Southwest Middle school at that time. XXX is a Google Certified Trainer, Raspberry Pi certified Educator, Microsoft Certified Educator, and holds his K-12 Technology Applications license through the state of Minnesota. XXX holds a Bachelor of Science in Information Systems Management, and a Masters Degree in Education. She began her career as a Science teacher in Arizona in 2003 and has taught Science and Technology courses throughout his career.

**Nominator Name**

XXX XXXXX

**Nominator Title of Position**

Teacher at Southwest Middle School

**Nominator District/Organization**XXX Schools

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**Nominator Email Address**XXXXXX@XXX.org

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**Nominator Phone Number**555-555-5555

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Has your district office (superintendent, director of schools, director of curriculum/teaching and learning, or equivalent) reviewed this nomination and support its submission?

 Yes No

Please identify how this educator supports the aims of STEM Forward in his or her work related to high student achievement.

XXX has created STEM electives which previously had not been offered at Southwest Middle School. The curriculum created is aligned to Minnesota state standards, ISTE standards, and CSTA standards, and all courses offered embed authentic real world unpredictable challenges for students to tackle. 89% of all students that take a STEM elective at Southwest Middle school are able to retain information taught in these courses and perform at the Mastery level on End of Course Assessments. In addition to the in-school offerings, XXX also leads after school competitive robotics teams and an all female coding club. In the first year of competitive robotics 50% of the students enrolled earned an invitation to the state robotics tournament by qualifying at regional events.

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Please identify how this educator supports the aims of STEM Forward in his or her work related to leadership and support for continuous improvement.

XXX is an integral part of the STEAM Collaborative Team which uses a documented process for cycle work to examine courses on a 4 week cycle to identify where students are in learning and where they need to go. The curriculum maps for STEM related courses are analyzed and updated annually as technologies and student needs change. XXX is one of 2 certified Google Trainers in the district and she utilizes this training to provide individualized and team instruction to staff to enhance their teaching experiences. XXX is also the Building Tech Coach and is eager to develop and provide training for ANY resource the campus or district offers as technology tools for integration. XXX has worked to help 24 teachers at Southwest Middle school become Google Certified Level 1 educators, and she herself continues to seek opportunities to enhance her knowledge and expertise to share with others. This continuous improvement is not restricted to just the classroom teachers, as XXX has worked with Special Services to help leverage technology to enhance and improve the workflow for other departments. At the request of the Alternate Learning Campus XXX has developed and implemented a tracking system using Google Forms and Sheets that tracks students attendance and credits required/attained, impacting ALL students that are a part of the program. She has also worked with lead Special Education staff to develop better systems to assist with the completion of needed paperwork by creating automated reminders, which has increased the meeting of deadlines by staff.

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**Please identify how this educator supports the aims of STEM Forward in his or her work related to early career awareness, exploration and planning for STEM careers.**

XXX continually works with leaders in STEM related career fields to insure curriculum design includes relevant real world experiences for students, and works to surround students with exposure to STEM careers. When you step into her classroom the first thing you see are posters lining the walls with various STEM career choices, potential salaries, and skills needed to obtain the jobs. XXX uses Engineering design models found in his classroom instruction which are adapted to model the processes used by companies in the area. XXX conducts virtual online collaborations with female technology leaders for his Girls Who Code club so that female students can speak with girls in the industry that are just like them. The competitive robotics club uses mentors from local organizations to support students in the exploration of automation and robotics, and XXX continues to promote not just 4 year college readiness at the middle school, but also the need for highly skilled trade offerings that are STEM related careers.

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**Please identify how this educator supports the aims of STEM Forward in his or her work related to collaboration and leadership among STEM Forward districts, business and post-secondary/higher education.**

XXX is a member of the MN Coding in the Classroom 2019 cohort and has presented at the annual regional MN Coding conference and was a part of the planning of the most recent annual conference. In addition to help plan the regional conference XXX was also a presenter on ways to provide effective STEM forward experiences using Chromebooks with free and/or low cost solutions to help reach districts that do not have budgets for full PC integration. XXX also collaborates through his efforts as a Google Certified Trainer to support districts primarily in the midwest with the integration of tools found in the G Suite line. XXX has also recently obtained certification as Pi certified educator through a collaboration with the raspberry Pi foundation in an effort to better integrate offerings from Pi into the classroom. Burke strives to build a foundation of experiences that cultivates into a passion for STEM Forward careers and exposure at the secondary level and beyond.

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