



STEMIE
Invention Education



Curricula, Tools
& Resources

STEMIE
STEM Education



for
K-2

STEMIE
Entrepreneurship
Education



3-5
6-8
9-12

STEMIE

Creating the future,
one innovator at a time



bringing futures into focus

Our Mission

- ☑ Bring STEM (Science, Technology, Engineering, and Math) invention education to students throughout Florida.
- ☑ Provide opportunities for students to be recognized and valued for their inventions
- ☑ Include all qualified student invention programs as part of a state-wide Florida Invention Convention program.



Growing the Program

In 2017, the Bright Young Minds Coalition began holding its first STEMIE™ Professional Development Workshops in Florida. We trained more than 25 teachers — in K-12 STEM Academies and Schools- from more than 20 schools in Hillsborough and Pinellas counties as part of our **2017 - 2018 pilot program**. Teachers left with an understanding of how to deliver our **FREE** National STEMIE Invention Curriculum to their students. Teachers were provided with hands-on materials and an in-depth curriculum to lead them through the Invention process in a project-based environment.



Our Affiliation

Bright Young Minds Coalition is a 501(c)(3) affiliate of the non-profit STEMIE Coalition.

The term "STEMIE" incorporates an emphasis on Science, Technology, Engineering and Math — as well as on Invention and Entrepreneurship (hence STEM+I+E). It supports efforts within each state to bring invention education to its students. The STEMIE Coalition puts on the National Invention Convention and Entrepreneurship Expo (NICEE) at the Henry Ford Museum in Dearborn, MI. This event brings students from around the United States together, to share their inventions, celebrate their accomplishments, and interact with one another.

www.inventflorida.org
Contact: Tracy Zuluaga
tracy@inventflorida.org
(305) 753-5755





Why STEMIE Invention Education?

Fostering the development of creative problem solving is an ongoing challenge in our schools. Students need opportunities to solve problems, think creatively, experiment, and work with data throughout the year.

Invention education is a proven way to teach disciplined inventive thinking in the classroom. Inventive thinking is necessary to build an innovative, entrepreneurial and diverse workforce to meet our country's future needs!

Invention Education puts science, engineering design, robotics, coding, making, and other skills into action!

How is STEMIE Different from Other Engineering and Science Programs?

- ☑ Each student determines the problem they want to solve based on issues they've experienced in their own lives
- ☑ Solution is a real-world, practical invention of their own design

Aligned to State and National Standards



Join us!

At the **2018 Florida Invention Convention May 4th and 5th**. We are reaching out to school superintendents, STEM and Gifted Coordinators, and Directors of Professional Development across Florida to identify schools with Invention Education Curriculum or those schools that may want or need Invention Education Resources and Curricula so that they can be participate in Invention Education and the Florida Invention Convention™.

We cannot develop this initiative alone. Corporations, Foundations and other entities interested in innovation, economic development and workforce development, are needed to help us with the 2018 Florida Invention Convention™. We are actively seeking business and community partners to help with:

- ☑ Sponsoring classrooms
- ☑ Becoming classroom mentors
- ☑ Obtaining venues for events
- ☑ Sponsorships for events
- ☑ Judging events
- ☑ Sponsoring student travel expenses to attend the state and national competitions

Community support is required to make the Florida Invention Convention™ a reality.

Learn More

We would love the opportunity to present more about our programs and its impact on students to your school, organization or business.

Contact Us



Florida Invention Convention™
Tracy Zuluaga
(305) 753-5755
tracy@inventflorida.org

About the Program

The STEMIE™ Invention Education Curriculum is a K-12 six to ten-week program taught in the classroom, as an afterschool workshop or an independent, home based project. The National Curriculum, shared with us through the STEMIE™ Coalition, is Next Generation Science Standard/Common Core aligned, and utilizes a construct that asks students to identify a problem in their own lives, or that of their families', employ **problem solving and creative thinking processes to solve the problem**, develop an invention idea, and finally build a prototype of the solution. With the in-classroom model, typically about one hour a week is devoted to in-school mentoring, and the rest is done at home, often with parental help. At the end of the program, students come together to present their inventions and celebrate their creative problem-solving accomplishments.

Teacher Professional Development

Teachers are trained on curricular resources, then tailor the lessons to the requirements of their student body. In-school lessons are activities that can be attached to any subject, including Science, History, Math, Art, and Music coursework.

All Children Are Inventors!