

We Need Professional Development Support for STEM In Pre-K through Fourth Grades



Smithsonian Education

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Middle school STEM teachers, are you looking for outstanding professional development this summer (and next)? Applications are open for the 2023 Teacher Innovator Institute at [National Air and Space Museum, Smithsonian Institution](#). Join teachers from across the US to explore the intersections of informal STEM education and authentic learning. Collaborate with peers, learn from experts, and explore Washington, DC. The program is free. Apply by February 15th!

<http://ow.ly/110g50MaulX>

- Lack of professional development at the federal level
- Lack of support from the private sector for early childhood educators



Scaling Up for STEM Initiative

The Northrop Grumman Foundation Scaling Up for STEM Initiative provides middle school (grades 6–8) and high school (grades 9–12) teachers with a yearlong immersive professional learning experience designed to enhance teacher confidence and classroom excellence in science, technology, and engineering; and increase STEM career exposure while boosting teacher understanding about the skills needed for a scientifically literate workforce. The program provides a tailored approach to support teachers' efforts to create an equitable learning environment that increases student interest, participation, and academic success in STEM education.

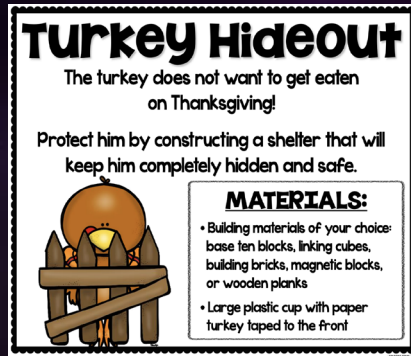
Requirements:



Teachers can apply to become a STEM Teacher Fellow if they

- Are currently full-time middle school (grades 6–8) or high school (grades 9–12) science, engineering, technology, and/or career and technical education classroom teachers.
- Located in public school districts in the following states: Alabama, South Carolina, North Carolina, Georgia, Tennessee, and Florida (must be teaching through the duration of the program);
- Have a minimum of two years of classroom teaching experience; and
- Have a strong desire to advance their district's STEM education in support of the vision of the *Next Generation Science Standards* by applying real-world applications in the classroom.

We Need Quality Curricular Materials and Training

- Lack of appropriate curricular materials
- Lack of curricular competency
- Lack of integrated materials needed to respond to time limitations



Grades <input type="checkbox"/> PreK <input type="checkbox"/> 6th <input checked="" type="checkbox"/> K <input type="checkbox"/> 7th <input type="checkbox"/> 1st <input type="checkbox"/> 8th <input type="checkbox"/> 2nd <input type="checkbox"/> 9th <input checked="" type="checkbox"/> 3rd <input type="checkbox"/> 10th <input type="checkbox"/> 4th <input type="checkbox"/> 11th <input type="checkbox"/> 5th <input type="checkbox"/> 12th		Force and Motion STEM Activities by Kim Carroll Engineering-Math-Art-Science These 9 STEM/STEAM force and motion activities and challenges are a perfect way to integrate more... Subjects: Earth Sciences, Engineering, Science Grades: 2nd - 5th Types: Activities, Centers Also included in: STEM Activities Bundle	\$5.00 ★ 4.9 (631) ✓ PDF Add to cart Wish List
Other <input type="checkbox"/> Not Grade Specific <input type="checkbox"/> Higher Education <input type="checkbox"/> Adult Education <input type="checkbox"/> Homeschool <input type="checkbox"/> Staff		Forces and Motion Lesson Slides for Google Slides™ (Grade 3 Science) by Teacher Resource Cabin These slides for Google Slides™ cover the Grade 3 Forces and Motion unit in the NEW 2022 Ontario Science curriculum (Matter & Energy). These slide... Subjects: General Science, Science Grades: 3rd Also included in: Forces and Motion Unit (Grade 3 Ontario Science NEW 2022)	\$9.75 ★ 4.9 (21) ✓ Google Slides™ Add to cart Wish List

CCSS

Solutions Needed at the Federal Level



- Interdisciplinary or Transdisciplinary teaching and learning
Extensive training will be needed
- Free materials from federal agencies
Focused on developing early reader reading passages
- Embedding educators at federal agencies that are experts in both content and early childhood pedagogy