

WHAT MAKES A SCHOOL A STEM SCHOOL?

The STEM Certificate with the National Institute for STEM Education

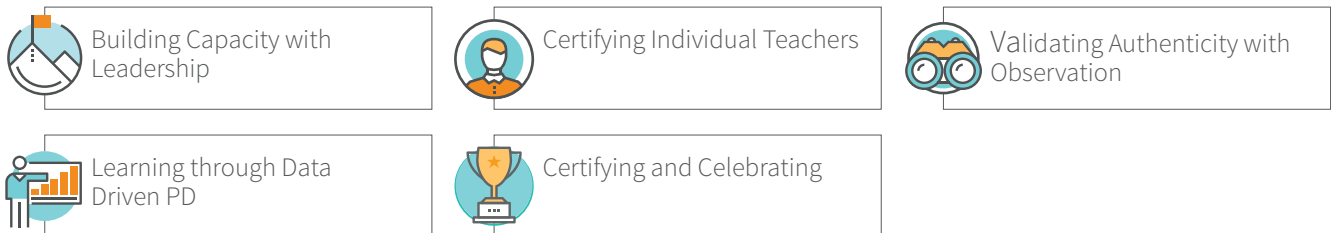
About: The National Institute for STEM Excellence (NISE)

Headquartered in Houston, Texas the National Institute for STEM Education (NISE) was born in the lab from experience of thousands of hours of expertise in professional development, curriculum design, and educational leadership. Understanding what it takes to transform a campus into a STEM campus, NISE certifies schools and districts in groundbreaking STEM instruction via the National Certificate for STEM Excellence program.

Guiding Principles for the National Certificate for STEM Excellence

- I Student Autonomy
- II Constructivism
- III Explicit/Reflective Methodology
- IV 21st Century Skill Building

Process for a Campus/District to receive the National Certificate for STEM Excellence



What is the National Certificate for STEM Excellence?

The National Certificate for STEM Excellence for campuses/districts provides a means to recognize excellence at the classroom, campus, and district levels. Through participation in the certification programs, teachers, campuses, and districts will be immersed in an experience that assists them in understanding and aligning their practices to the research defining quality STEM instruction.

Questions? Contact **Bobby Barron**, STEM Account Manager
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NATIONAL CERTIFICATE FOR STEM EXCELLENCE

Five Steps to Certifying your Campus and District

Detailed Process and Outcomes

Step	Description	Outcome	Audience	Time
1. Building Capacity with Leadership	In this step the district will select a leadership team comprised of administrators and instructional leaders to attend 1 day of professional development on the foundations of STEM. The team will also be trained on the Teacher Actions That Matter in the STEM Observation Protocol and take a self-assessment survey on the current state of STEM on their campus.	The leadership team will be able to understand the components of what makes a campus exemplary in STEM teaching and learning.	Campus Administrators and Coaches	1 day
2. Certifying Individual Teachers	All Identified STEM teachers and coaches on campus will work to complete the online program for the National Certificate for STEM Teaching.	Teachers will understand and implement the foundations of STEM pedagogy and the 15 actions of a successful STEM teacher. Teachers receive The National Certificate of for STEM Teaching	Campus Coaches; STEM Teachers	Average 2-4 months
3. Validating Authenticity with Observation	Using the Observation Protocol for the Teacher Actions that Matter, the Master Trainer along with the leadership team will observe STEM teachers teaching and implementing the pedagogical practices learned by attaining the National Certificate for STEM Teaching in Step 2.	The data from the observations will be used to identify what additional, face-to-face targeted training is needed for the teachers.	Campus Administrators and Coaches; STEM Teachers	3 days
4. Learning Through Data Driven Professional Development	Teachers and coaches will attend four 3 hour training sessions focused on need based out of the three domains of STEM teaching that are being observed and identified as areas of growth from administration.	Teachers will become stronger in the implementation and execution of the pedagogical practices for STEM teaching.	STEM Teachers	2 days
5. Certifying and Celebrating	The Master Trainer completes a walkthrough with administrators to confirm that teachers are using the identified teacher actions. The school or district will receive their certification at a campus-based celebration will occur.	The school will be awarded the National Certificate for Excellence in STEM.	All parties	1 day
Cost			\$15,950 per campus + \$625 per teacher	

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