



Marathon High School
T-STEM Renewal Application
2018-2019

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Background

District Affiliation

MARATHON ISD

DC #: 022902

Region: 18

Mailing Address (Line 1): P O BOX 416

Mailing Address (Line 2):

City, State, Zip: MARATHON, TX 79842

School Affiliation

MARATHON INDEPENDENT SCHOOL DIST

CDC #: 022-902-001

Region:

Mailing Address (Line 1): P O BOX 416

Mailing Address (Line 2):

City, State, Zip: MARATHON, TX 79842

Academy Information

T-STEM Academy Name:

Marathon High School

What grade level range will your academy serve in the 2018-2019 school year?

6-12

Grade Level	Number of Students
6	7
7	5
8	5
9	4
10	2
11	5
12	5

Contacts

Business Partner

Affiliation: Abacus Computers Inc.

Job Title: President

Full Name: Mr. Mohan Singh

Email: mohans@abacustx.com

Phone Number: 432-687-5424

IHE Liaison

Affiliation: The Univeristy of Texas of the Permain Basi

Job Title: Director of early College High Schoo/Dual Credit

Full Name: Dr. Lillian Porter

Email: porter_l@utpb.edu

Phone Number: 432-552-4556

IHE Liaison

Affiliation: Odessa College

Job Title: Associate Dean of Arts and Sciences

Full Name: Ms. Katie Nisbet

Email: knisbet@odessacollege.edu

Phone Number: 432-335-6400

Narratives

Model Implementation

Which T-STEM model does the district intend to implement at this time? Within these models, there are variations. For this purpose campus is defined as a CDC number not a physical location.

Stand Alone Academy - All students on the campus are enrolled in the T-STEM academy

Endorsements

Identify the current endorsements that are offered:

- Science, Technology, Engineering, and Mathematics (STEM)
- Multi-disciplinary Studies

Industry Certificates

Identify all industry certificates offered to students.

Certificate	Description
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Level One Certificates

Identify all level one certificates offered to students.

Certification	Description
Welding Level I Certificate	Students are exposed to welding design, technical hints and get tips from industry experts. Key content includes welding safety, oxyfuel cutting, plasma arc cutting, air carbon arc cutting

Level Two Certificates

Identify all level two certificates offered to students.

Certification	Description
Welding Level II Certificates	Second level offers key concepts such as welding symbols, reading welding detail drawings, physical characteristics and mechanical properties of metals, preheating and postheating of metals

Key Elements for Success

Provide a link to the job description, roles of design team, leadership team, and advisory board.

<https://marathonisd.net>

Provide a link to your mission statement.

<https://marathonisd.net>

Provide a link to the final, signed, and executed MOU.

<https://marathonisd.net>

Provide a link to the academy's master schedules.

<https://marathonisd.net>

Provide a link to the academy's Student IGPs with CCRS and Performance Acknowledgement Plans.

<https://marathonisd.net>

Provide a link to the academy's written admission policy and enrollment application.

<https://marathonisd.net>

Provide a link to the academy's written recruitment plan including a timeline of recruitment and enrollment events, and recruitment materials for distribution at feeder schools and other appropriate locations in the community

<https://marathonisd.net>

Provide a link to the academy's description of instruction practices.

<https://marathonisd.net>

Provide a link to the academy's STEM-focused extracurricular activities.

<https://marathonisd.net>

Provide a link to the academy's internship and externship opportunities.

<https://marathonisd.net>

Provide a link to the academy's Senior Capstone Project description.

<https://marathonisd.net>

Provide a link to the academy's Student Portfolio Plans.

<https://marathonisd.net>

Provide a link to the academy's Academic Literacy Plan.

<https://marathonisd.net>

Provide a link to the academy's Assessment strategy.

<https://marathonisd.net>

Free-Response

Describe how the Academy will recruit, support, and retain highly qualified teachers.

Marathon ISD has increased benefits to include 100% employee health insurance, employee dental, and vision insurance, a \$10,000 life insurance policy, and the ability to get additional coverage through First Financial. MISD is in the process of approving the purchase of teacher housing. Housing would be available at a reduced rate. This addresses one of our areas of need in recruitment and retention due to the lack of affordable housing in the community. Through the District of Innovation, during the 2018-2019 school year, teachers will be required to work 182 days instead of the usual 187. This is a built in raise without additional required school funding. MISD is attending job fairs and making outreach to local universities in order to recruit highly qualified teachers. We have developed a partnership with the Sul Ross State University Education Department, which is enabling education students to join our elementary classrooms to provide teaching and one on one assistance with our 2nd and 3rd grade students. We hope that this partnership will encourage some of these students to join our staff due to this exposure to our district.

Describe the current STEM pathways available at the academy.

MISD currently has a pathway which will provide an avenue for students to obtain an associates degree in computer science.. This degree also provides the core curriculum foundation for students to proceed to a bachelors degree in a four year university after graduation.

Describe how strategic alliances with industry partners and IHEs will support the Academy. The description should include details regarding the role of each IHE, business, and/or community partnership; along with parent/family partnerships and communication conventions with the Academy.

MISD is working with local colleges and universities to provide our students with avenues to associate degrees and career pathways in STEM fields. As a small district with limited staff, these partnerships provide opportunities for our students to explore careers and areas of study that have not been previously available to them. Industry partners will provide hands on experience with internships and capstone projects. With family and community commitment to our district goals, the community has become aware of our STEM activities and have donated both time and money in to our program goals. Community members have not only donated materials but have become mentors to our students.

Describe the Academy's work-based and contextual learning in the curriculum.

MISD provides in school internships in technology. These students use their knowledge gained in their computer classes to assist with the technology needs within the district.

Describe the STEM-focused extracurricular activities (field experiences, clubs, and competitions) offered to students.

MISD has created a horticultural science class in which students with the help of the community of planned and produced a viable chicken coup. Students then researched various types of chickens and then chose the type that they wanted to raise. Eggs were then ordered and the students hatched and raised the chickens. Feeding and care of the animals is provided by the students during class and after school endeavors. The students have begun an entrepreneurial program where they are marketing and selling the eggs that are produced. Students also participate in the 4H program where they raise and show various animals including hogs, cattle and lambs. UIL activities are provided to the students in science and these students are showing promise with success at the district level and trips to the regional contests.