



Fruitvale High School  
T-STEM Renewal Application  
2018-2019

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# Background

## District Affiliation

FRUITVALE ISD

DC #: 234909

Region: 07

Mailing Address (Line 1): P O BOX 77

Mailing Address (Line 2):

City, State, Zip: FRUITVALE, TX 75127

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## School Affiliation

FRUITVALE H S

CDC #: 234-909-001

Region:

Mailing Address (Line 1): P O BOX 77

Mailing Address (Line 2):

City, State, Zip: FRUITVALE, TX 75127

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## Academy Information

**T-STEM Academy Name:**

Fruitvale High School

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

9-12

Grade Level	Number of Students
9	21
10	29
11	24
12	37

# Contacts

## Business Partner

**Affiliation:** Gallant Restoration Management LLC

**Job Title:** Owner

**Full Name:** Mr. Stephen Hendrix

**Email:** steve@gallantllc.net

**Phone Number:** 214-405-6167

## Superintendent

**Job Title:** Superintendent

**Full Name:** Mrs. Rebecca Bain

**Email:** bainr@fruitvaleisd.com

**Phone Number:** 903-896-1191

## Applicant

**Job Title:** Principal

**Full Name:** Mr. Charles Harford

**Email:** harfordc@fruitvaleisd.com

**Phone Number:** 903-896-4363

## IHE Liaison

**Affiliation:** Trinity Valley Community College

**Job Title:** Director of Dual Credit

**Full Name:** Mrs. Kelley Townsend

**Email:** ktownsend@tvcc.edu

**Phone Number:** 903-675-6338

# 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)
- Business and Industry
- Public Services
- Arts and Humanities
- Multi-disciplinary Studies

## Industry Certificates

Identify all industry certificates offered to students.

Certificate	Description
Microsoft Word	Proficiency using Microsoft Word software
Microsoft Excel	Proficiency using Microsoft Excel software
FAA's Small UAS Rule (14 CFR part 107)	Allows someone with this certification to pilot unmanned aircraft systems (UAS)
Beef Quality Assurance Certification	Certification earned through Animal Science classes
Veterinary Assistant	Earned through TVMA

## Level One Certificates

Identify all level one certificates offered to students.

Certification	Description
Floral Certification	Earned through Texas State Florists' Association

## Level Two Certificates

Identify all level two certificates offered to students.

Certification	Description
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## Key Elements for Success

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

<https://sites.google.com/fruitvaleisd.com/fruitvaletstemacademy/home>

**Provide a link to your mission statement.**

<https://sites.google.com/fruitvaleisd.com/fruitvaletstemacademy/home>

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

<https://sites.google.com/fruitvaleisd.com/fruitvaletstemacademy/home>

**Provide a link to the academy's master schedules.**

<https://sites.google.com/fruitvaleisd.com/fruitvaletstemacademy/home>

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

<https://sites.google.com/fruitvaleisd.com/fruitvaletstemacademy/home>

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

<https://sites.google.com/fruitvaleisd.com/fruitvaletstemacademy/home>

**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://sites.google.com/fruitvaleisd.com/fruitvaletstemacademy/home>

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

<https://sites.google.com/fruitvaleisd.com/fruitvaletstemacademy/home>

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

<https://sites.google.com/fruitvaleisd.com/fruitvaletstemacademy/home>

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

<https://sites.google.com/fruitvaleisd.com/fruitvaletstemacademy/home>

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

<https://sites.google.com/fruitvaleisd.com/fruitvaletstemacademy/home>

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

<https://sites.google.com/fruitvaleisd.com/fruitvaletstemacademy/home>

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

<https://sites.google.com/fruitvaleisd.com/fruitvaletstemacademy/home>

**Provide a link to the academy's Assessment strategy.**

<https://sites.google.com/fruitvaleisd.com/fruitvaletstemacademy/home>

## Free-Response

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

Being a small 1A rural school district recruiting and retaining highly qualified teachers can be a challenge. We use online job postings on our school website and through the Region VII service center.

Prospective candidates are brought before a hiring committee and then must be approved by the Superintendent before they are offered a position.

The Fruitvale TSTEM Academy supports our teachers in a variety of ways through professional development, Professional Learning Communities, and one on one meetings with the Principal and Curriculum Director.

We also assign new teachers a mentor teacher. This is someone they can reach out to if there having trouble or need advice. The mentor teachers also observe our new teachers and give recommendations on how to improve in the classroom.

We strive to retain these teachers with a competitive salary, stipends for extra duties, and yearly bonuses for longevity.

**Describe the current STEM pathways available at the academy.**

Fruitvale TSTEM Academy offers pathways in the Business and Industry Endorsement through Agriculture, Food, & Natural Resources and Arts, A/V Technology, & Communications. Courses offered include: Principles of Agriculture, Small Animal Management, Livestock Production, Advanced Animal Science, Ag Mechanics, Ag Design and Fabrication, Principles of Technology, Animation, Advanced Animation, and Video Game Design.

In the Public Services Endorsement Fruitvale offers Health Science. Courses offered under this strand include: Principles of Health Science, Medical Terminology, and Anatomy & Physiology,

In the Multi-Disciplinary Endorsement we offer courses in Dual Credit such as English, U. S. History, Government, Economics, and Psychology that satisfy those requirements.

In the Arts & Humanities Endorsement, Fruitvale ISD offers five years of Band starting their 8th grade year.

Finally, Fruitvale ISD offers the STEM endorsement. Courses include: Engineering, Robotics, Small Aircraft Technology, Chemistry, Physics, Algebra II, and College Algebra.

**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.**

**FRUITVALE ISD STEM BENCHMARK: STRATEGIC ALLIANCES**

Objective: Fruitvale TSTEM Academy will strive to achieve partnerships with business, industry and Trinity Valley Community College in order to support success of academic (STEM) programs, which will lead to increased STEM and other high demand occupation jobs in the Fruitvale and surrounding areas

1. Work closely with Trinity Valley Community College through a Memorandum of Understanding to include policies such as, but not limited to: courses of study, advising students, dual credit transcripts, grading periods, instruction, enrollment and attendance.
2. Create partnerships with key stakeholders in Van Zandt County and surrounding regions to foster collaborative research and professional development opportunities.
3. Work closely with industry partner PITSCO and develop a Memorandum of Understanding to include policies such as, but not limited to: work based learning experiences, roles and responsibilities for supervisors/mentors/teachers, career mentoring, course paths, support for students' activities such as clubs, FFA, competitions, etc.
4. Seek industry based certificates approved by the Texas Education Agency as evidence of the quality of the programs that produce graduates with a solid educational foundation, are prepared to pursue advanced study, or to enter their professions directly after graduation.

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

**FRUITVALE ISD STEM BENCHMARK: WORK BASED LEARNING**

Objective: Fruitvale T-STEM Academy will work to offer students a variety of relevant, high-skill work-based learning experiences at every grade level that respond to student interest and regional employer needs in order to support success of academic (STEM) programs, which will lead to increased STEM and other high demand occupation jobs in the Fruitvale and surrounding areas

Seek industry based certificates approved by the Texas Education Agency as evidence of the quality of the programs that produce graduates with a solid educational foundation, are prepared to pursue advanced study, or to enter their professions directly after graduation.

Collaborate with the East Texas Workforce Commission to define local workforce needs in STEM careers

Bring in work based experiences from businesses such as: Pitsco, Trinity Mother Frances, Texas A&M Agriculture Extension, local welders, and other businesses

Provide students work-based learning through speakers and presenters each month during advisory  
Teach employability skills each Thursday for K-12 students during advisory or social studies time that include career readiness skills

Provide students time to reflect on their job readiness skills through a self-evaluation tool, employability rubric. This tool will serve as a portfolio/capstone for students to take as they enter into the workforce to show future employers their career readiness skills.

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

The Fruitvale TSTEM Academy offers several extracurricular activities to students that are related to the STEM field. We offer a robotics class and these students compete in the BEST and FIRST robotic competitions throughout the year. We have also partnered with a neighboring school district to give our robotics team a chance to practice before their competitions.

We also offer a class called Introduction to Small Aircraft Technology. In this class students learn to pilot drones through the use of computer simulations and hands on work with drones. At the end of the class we offer students a chance to earn their drone license through the FAA.

Fruitvale TSTEM Academy is very involved in Academic UIL competitions. Our team won the district UIL meet last month for the 2nd straight year and we had 29 students qualify for the regional meet. Our math team is the reigning state champion in 1A and we also had the highest individual scorer last year.

Our FFA program is also very strong at Fruitvale. Students compete throughout the year in animal science and vet med competitions.