



Lancaster ISD T-STEM Academy
T-STEM Renewal Application
2018-2019

Contents

[Background](#)

[Contacts](#)

[Narratives](#)

[Download Assurances Signature Page](#)

Background

District Affiliation

LANCASTER ISD

DC #: 057913

Region: 10

Mailing Address (Line 1): 422 S CENTRE AVE

Mailing Address (Line 2):

City, State, Zip: LANCASTER, TX 75146

School Affiliation

LANCASTER H S

CDC #: 057-913-001

Region:

Mailing Address (Line 1): 200 E WINTERGREEN RD

Mailing Address (Line 2):

City, State, Zip: LANCASTER, TX 75134

LANCASTER MIDDLE

CDC #: 057-913-041

Region:

Mailing Address (Line 1): 822 W PLEASANT RUN RD

Mailing Address (Line 2):

City, State, Zip: LANCASTER, TX 75146

G W CARVER 6TH GRADE STEM LEARNING CENTER

CDC #: 057-913-042

Region:

Mailing Address (Line 1): 1005 WESTRIDGE

Mailing Address (Line 2):

City, State, Zip: LANCASTER, TX 75146

Academy Information

T-STEM Academy Name:

Lancaster ISD T-STEM Academy

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

6-12

Grade Level	Number of Students
6	540
7	484
8	524
9	556
10	496
11	466
12	460

Contacts

Business Partner

Affiliation: Oncor Electric Delivery
Job Title: Area Manager, Community and Customer Relations
Full Name: Mr. Kenneth Govan
Email: contactcenter@oncor.com
Phone Number: 972-230-5135

Superintendent

Job Title: Superintendent
Full Name: Mr. Elijah Granger
Email: elijahgranger@lancasterisd.org
Phone Number: 972-218-1400

Applicant

Job Title: Executive Director of Academics and Innovation
Full Name: Mrs. Kyndra Johnson
Email: kyndrajohnson@lancasterisd.org
Phone Number: 972-218-1426

IHE Liaison

Affiliation: Cedar Valley Community College
Job Title: Chancellor
Full Name: Mr. Joe May
Email: jmay@dcccd.edu
Phone Number: 214-378-1601

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: Multiple Campuses - 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

Industry Certificates

Identify all industry certificates offered to students.

Certificate	Description
Pharmacy Technician	Pharmacy technicians work alongside a Pharmacist to prepare medications as prescribed by doctors. Preparation may include mixing, measuring, labeling and recording amounts and dosages of med
Auto Technology	Chassis Certification
Culinary	Servsafe certification
Cosmetology	TDLR Operator's license
Health Science	CPR and Pharmacy Technician
Information Technology	A Plus
Graphic Communications	Adobe Certified Associate (ACA)

Level One Certificates

Identify all level one certificates offered to students.

Certification	Description
---------------	-------------

Level Two Certificates

Identify all level two certificates offered to students.

Certification	Description
---------------	-------------

Key Elements for Success

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

<https://lhs.lancasterisd.org/>

Provide a link to your mission statement.

<https://lhs.lancasterisd.org/>

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

<https://lhs.lancasterisd.org/>

Provide a link to the academy's master schedules.

<https://lhs.lancasterisd.org/>

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

<https://lhs.lancasterisd.org/>

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

<https://lhs.lancasterisd.org/>

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://lhs.lancasterisd.org/>

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

<https://lhs.lancasterisd.org/>

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

<https://lhs.lancasterisd.org/>

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

<https://lhs.lancasterisd.org/>

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

<https://lhs.lancasterisd.org/>

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

<https://lhs.lancasterisd.org/>

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

<https://lhs.lancasterisd.org/>

Provide a link to the academy's Assessment strategy.

<https://lhs.lancasterisd.org/>

Free-Response

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

Recruit/Retain

Lancaster ISD T-STEM Academy hosts job fairs and other networking mixers to attract highly qualified teachers. The academy will offer stipends to teachers as well as continue to support their attainment of certifications and credentials to implement STEM courses and dual credit offerings.

Support

Our current model addresses STEM-integrated, context-based problem solving and exposure to STEM fields and technology; and curriculum that requires rich technology use and scientific literacy. Elevating the instructional quality of Lancaster ISD teachers continues to be one critical area we focus on to support LISD's attainment of district STEM goals. Results from the district's state and local assessments, along with insights gleaned from ongoing conversations with district and campus stakeholders, are also used to pinpoint campus instructional needs and develop district professional development opportunities. The district professional development model supports the professional learning and growth of teachers by providing them with focused learning opportunities that strengthen their skills and prepare them to positively impact student learning. The implementation of our sustained professional development model - STEM Pedagogical Institute - makes use of student and teacher data to promote continuous learning opportunities that address three prioritized teacher professional development (PD) needs:

- Teachers' "Deep knowledge of the content"
- Tier 1 Instruction
- 21st Century instructional strategies and Problem Based Learning

Describe the current STEM pathways available at the academy.

Business Administration - Business & Industry

Culinary Arts- Business & Industry

Graphic Communications- Business & Industry

Information Systems Technology- Business & Industry

Information Systems and Software Design- Business & Industry

Media Technology- Business & Industry

Cosmetology - Public Services

Health Science- Public Services

Veterinary Studies- Public Services

Engineering - STEM

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.

Lancaster High School T-STEM Academy utilizes industry partners and IHEs to support curriculum, instruction, and extra-curricular learning experiences for students and teachers. Our IHE partners assist with educator training in content and pedagogy, We also utilize our IHE partners for dual credit opportunities for our students. Additionally, LHS utilizes its business and community partners, such as Communities in Schools, The TurnAround Agenda, Crescent Medical Center, Anytime Fitness, and others to provide social and emotional support for students and their families, mentoring for students, guidance counseling, job shadowing, and academic support such as tutoring and instructional presentations.

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

All students attending Lancaster High School experience work-based and contextual learning in their core content classes and their respective career pathways. In the career pathway courses, students obtain practical experiences with theory of knowledge and study to be entrepreneurs as well as practitioners in the field. For example, in the Culinary Arts program, students obtain on-the-job training as they operate the school's Tiger Bistro which cooks and serves lunch for staff twice per week. Students in Cosmetology operate a full-service campus salon that is open to the public. Core teachers are trained in and implement problem- and project-based learning (PBL) units which focuses on inquiry-based learning experiences for students. PBLs also involve connecting and partnering with industry experts to enhance the practicality of the learning for the students and transformation of knowledge and skills to a real-world context.

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

STEM Clubs and Competitions

Lancaster ISD leverages STEM outreach opportunities for increasing students' college and career readiness by increasing STEM literacy, providing all district stakeholders opportunities to participate in STEM learning experiences, achieve STEM milestones, and purposefully engage students in STEM pipeline articulation. LISD continues to align stakeholders, including state and local school officials and school board members, community college leaders, university officials and partners from private industry, to secure funding, job-specific training and STEM-focused instructional resources for students and teachers. LISD will have a foundation for:

- Evidence-based and represented systemic approaches to STEM education, including in-school, Out-of-school or extended day programs that support students' transitioning from elementary to middle and middle to high school.
- Represented collaborations among Best Southwest districts and higher education, community, and relevant business/industry partners that will impact problem based learning, internships, and externships for students and teachers.
- Targeted improved preparation for academic performance in advanced STEM curricula by minorities, females, and students from limited-resource families.
- Serving students in grades 4-11, placing priority on problem and inquiry-based learning concepts, and/or preparing students for successful completion of and participation in advanced placement courses.
- Strategies that incorporate content-specific professional development for teachers, and provide relevant career and work connections for teachers and students.

The following STEM clubs and competitions are implemented annually:

LHS Tigers Engineering Club
NSBE Jr. Student Chapter
NASA International Space Settlement Competition
Mu Alpha Theta
GEMS (Girls in Engineering, Math and Science)
Physics and Engineering Day
Video Gaming Club
Robotics Club
Texas Pre -Freshman Engineering Summer Bridge Camp
STEM Summer Bridge
National Honor Society (NEHS, NJHS)
Hour of Code
High Achievers