



Valley View T-STEM ECHS

T-STEM Renewal Application

2018-2019

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Background

District Affiliation

VALLEY VIEW ISD

DC #: 108916

Region: 01

Mailing Address (Line 1): 9701 S JACKSON RD

Mailing Address (Line 2):

City, State, Zip: PHARR, TX 78577

School Affiliation

VALLEY VIEW H S

CDC #: 108-916-001

Region:

Mailing Address (Line 1): 9701 S JACKSON RD

Mailing Address (Line 2):

City, State, Zip: PHARR, TX 78577

Academy Information

T-STEM Academy Name:

Valley View T-STEM ECHS

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

9-12

Grade Level	Number of Students
9	125
10	124
11	101
12	110

Contacts

Business Partner

Affiliation: National Butterfly Center
Job Title: Executive Director
Full Name: Mrs. Marianna Wright
Email: marianna@nationalbutterflycenter.org
Phone Number: 956-583-5400

Superintendent

Job Title: Superintendent
Full Name: Mr. Rolando Ramirez
Email: rramirez@vviewisd.net
Phone Number: 956-340-1000

Applicant

Job Title: Coordinator
Full Name: Mr. Gustavo Guzman
Email: gguzman@vviewisd.net
Phone Number: 956-340-1500

IHE Liaison

Affiliation: South Texas College
Job Title: Director of Early College High School
Full Name: Ms. Sofia Pena
Email: sofia21@southtexascollege.edu
Phone Number: 956-872-2303

Business Partner

Affiliation: South Texas Health Systems
Job Title: Director of Volunteer Services
Full Name: Mr. Joel Pena
Email: joel.pena@uhsrgv.com
Phone Number: 956-878-9351

Business Partner

Affiliation: Hidalgo Family Clinic

Job Title: Nurse Practitioner

Full Name: Dr. Anurag Srivastava

Email: hidalgofamilyclinic@gmail.com

Phone Number: 956-627-0510

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.

School-Within-School (SWS) - A subset of students on the campus are enrolled in grades 9-12 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 Office Specialist	Upon successful completion and passage of the course and required certification exams, the student is eligible to receive a certification in MOS, Word, Powerpoint and Excel.
Certified Nurse Aide/Assistant (CNA)	The CNA course introduces the student to care for patients under the supervision of Registered Nurse, a Licensed Practical Nurse or a Licensed Vocational Nurse. Upon successful completion an
Certified Phlebotomy Technician (CPT)	In Phlebotomy, the students are trained to draw blood from patients for clinical or medical testing, donations, transfusions, or medical research. Upon successful completion and passage of e

Level One Certificates

Identify all level one certificates offered to students.

Certification	Description
AWS SENSE Welding Level 1	Students learn how to safely set up, present and perform preventative maintenance on welding equipment. Students also receive training on welding safety.

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://vvhs.vviewisd.net/apps/pages/index.jsp?uREC_ID=203431&type=d&pREC_ID=1404576

Provide a link to your mission statement.

https://vvhs.vviewisd.net/apps/pages/index.jsp?uREC_ID=203431&type=d&pREC_ID=677449

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

https://vvhs.vviewisd.net/apps/pages/index.jsp?uREC_ID=203431&type=d&pREC_ID=1404576

Provide a link to the academy's master schedules.

https://vvhs.vviewisd.net/apps/pages/index.jsp?uREC_ID=203431&type=d&pREC_ID=1404576

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

https://vvhs.vviewisd.net/apps/pages/index.jsp?uREC_ID=203431&type=d&pREC_ID=1404576

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

https://vvhs.vviewisd.net/apps/pages/index.jsp?uREC_ID=203431&type=d&pREC_ID=1404576

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://vvhs.vviewisd.net/apps/pages/index.jsp?uREC_ID=203431&type=d&pREC_ID=1404576

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

https://vvhs.vviewisd.net/apps/pages/index.jsp?uREC_ID=203431&type=d&pREC_ID=1404576

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

https://vvhs.vviewisd.net/apps/pages/index.jsp?uREC_ID=203431&type=d&pREC_ID=1404601

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

https://vvhs.vviewisd.net/apps/pages/index.jsp?uREC_ID=203431&type=d&pREC_ID=1404576

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

https://vvhs.vviewisd.net/apps/pages/index.jsp?uREC_ID=203431&type=d&pREC_ID=1404576

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

https://vvhs.vviewisd.net/apps/pages/index.jsp?uREC_ID=203431&type=d&pREC_ID=1404576

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

https://vvhs.vviewisd.net/apps/pages/index.jsp?uREC_ID=203431&type=d&pREC_ID=1404576

Provide a link to the academy's Assessment strategy.

https://vvhs.vviewisd.net/apps/pages/index.jsp?uREC_ID=203431&type=d&pREC_ID=1404576

Free-Response

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

Valley View T-STEM ECHS identifies, interviews and hires Highly Qualified teachers. We provide an environment where teachers have the support and resources to become instructional leaders in their content area. Teachers are supported through continuous, year-round, professional development. Dual Credit/Adjunct faculty receive additional support from our IHE partner, South Texas College. Dual Credit/Adjunct faculty attend professional development, department meetings and receive additional training through the Developing Excellence in Learning and Teaching Academy (DELTA)

All academy teachers receive an additional stipend for serving students in Valley View T-STEM ECHS. The

district encourages teachers to pursue Master level degree and offers incentive pay for teachers with Master's level degrees in their content area. Teachers may also earn additional stipends for teaching dual credit coursework.

Teachers play an integral part in the curriculum decision making process. They receive the full support of administration to implement their creative and innovative teaching strategies. The academy experiences very low turnover each year. New staff is always assigned a mentor teacher to assist with the transition into Valley View T-STEM ECHS.

Describe the current STEM pathways available at the academy.

Valley View T-STEM ECHS offers all five endorsements: STEM, Business & Industry, Arts & Humanities, Public Services and Multidisciplinary Studies. The following are sample pathways that our students may take to earn each respective endorsement:

STEM:

- Science: Chemistry -> Physics -> Anatomy & Physiology -> Advance Placement or Dual Credit in Biology/Chemistry/Physics
- Mathematics: Algebra 2 -> Precalculus -> Advance Placement or Dual Credit in Statistics/Calculus

Business & Industry:

- Business Information Management 1 -> Business Information Management 2 -> Welding
- Electrical Trades -> Advanced Electrical Trades

Arts & Humanities:

- Band 1 -> Band 2 -> Band 3 -> Band 4
- Art 1 -> Art 2 -> Theater Arts 1 -> Theater Arts 2

Public Services:

- Business Information Management 1 -> Business Information Management 2 -> Law Enforcement 1 -> Law Enforcement 2

Multidisciplinary:

- Completion of 4 x 4 plan (4 courses in each of English, Mathematics, Science and Social Studies)

Students that wish to continue and meet the necessary requirements for dual enrollment may continue working on an Associate's Degree in their field.

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.

Strategic alliances with business/industry partners, South Texas College and parents/family support the academy as follows:

- Business/Industry Partners support our academy by providing internship/externship and job shadowing opportunities. These partners also serve as career day speakers, classroom speakers, mentors and panelist for PBLs and capstone projects.
- South Texas College (IHE) provides our students with dual credit opportunities on our campus and theirs, Tuition is waived for all our student partaking in coursework on the IHE campus. Students may take face to face or virtual coursework. The IHE also provides social/emotional counseling, registration support and academic advising services to our students. Professors are provided for all our course request and PD is offered for our adjunct faculty.
- Parents share in the responsibility of educating their children by attending meetings for grades, registration, truancy, etc when requested. Parents serve on our Advisory Board, PTO and volunteer on our campus for a variety of events. Parents serve on booster clubs and assist with fundraising.

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

The academy provides students with contextual learning through the following:

- Partnerships with community organizations/businesses for PBLs
- Practicum courses through our Career and Technical Education program (COOP)
- Internship course for students in the Spanish Medical Minor program through UTRGV
- Internship/Job Shadowing opportunities through our required senior Problems and Solutions course
- Mock job interviews by community professionals
- Community service-All students are required to perform a minimum of 15 community service hours each school year.

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

Our academy offers the following STEM-focused extracurricular activities to our students:

-Field Experiences: Students participate in a variety of STEM activities such as the regional Student by Student Technology & Leadership Conference hosted by Region One ESC. For National STEM Day, we hosted a day long event where students were able to participate in hands-on activities and see science demonstrations. The physics department of the University of Texas Rio Grande Valley (UTRGV) also visited our campus to provide our students with hands-on demonstrations. Our seniors participate in an annual field trip in their AP Biology or Anatomy & Physiology classes. Past classes have visited the UTRGV Coastal Studies Laboratory where they had the opportunity to dissect a shark and the South Padre Island Birding Nature Center where they learned about the local ecology and species of birds and other animals that make our region home.

-Clubs: Students have the opportunity to join extracurricular STEM-focused clubs and activities such as the Pre-Med Society, the Environmental Awareness Club, Hispanics in Engineering, Science and Technology (HESTEC) and FIRST Robotics.

-Competitions: Our students participate in a variety of STEM related competitions such as Academic UIL in Mathematics, Number Sense and Calculator. Robotics teams have competed locally at the annual HESTEC robotics competition as well as on a Regional/State level with FIRST Robotics Competition.