



HARMONY SCHOOL OF INNOVATION - KATY

T-STEM Renewal Application

2019-2020

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Background

District Affiliation

HARMONY SCHOOL OF SCIENCE - HOUSTON

CD #: 101862

Region: 04

Mailing Address (Line 1): 14100 SOUTHWEST FWY

Mailing Address (Line 2):

City, State, Zip: SUGAR LAND, TX 77478

School Affiliation

HARMONY SCHOOL OF INNOVATION - KATY

CDC #: 101-862-005

Region:

Mailing Address (Line 1): 22400 GRAND CORNER DR BLDG B

Mailing Address (Line 2):

City, State, Zip: KATY, TX 77494

Academy Information

T-STEM Academy Name:

HARMONY SCHOOL OF INNOVATION - KATY

Are you currently in the 2018-2019 planning year or are a 2018-2019 planning grantee?

Yes

What grade level range will your academy serve in the 2019-2020 school year?

6-12

Grade Level	Number of Students	School / CDC # Where Students are Enrolled
6	108	HARMONY SCHOOL OF INNOVATION - KATY (101862005)
7	104	HARMONY SCHOOL OF INNOVATION - KATY (101862005)
8	104	HARMONY SCHOOL OF INNOVATION - KATY (101862005)
9	87	HARMONY SCHOOL OF INNOVATION - KATY (101862005)
10	86	HARMONY SCHOOL OF INNOVATION - KATY (101862005)
11	50	HARMONY SCHOOL OF INNOVATION - KATY (101862005)
12	33	HARMONY SCHOOL OF INNOVATION - KATY (101862005)

Contacts

Business Partner

Affiliation: Advancial Federal Credit Union
Job Title: Business Development Manager
Full Name: Ms. Jennifer Bell
Email: jbelle@advancial.org
Phone Number: 281-679-1133

Superintendent

Job Title: Superintendent
Full Name: Mr. Ramazan Coskuner
Email: rcoskuner@harmonytx.org
Phone Number: 832-831-9174

Applicant

Job Title: Dean of Academics
Full Name: Mr. ahmet sagbilge
Email: asagbilge@harmonytx.org
Phone Number: 281-392-9000

IHE Liaison

Affiliation: HCC
Job Title: Chair
Full Name: Dr. Ritu Raju
Email: Ritu.raju@hccs.edu
Phone Number: 713-718-5614

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: Other Grade Levels - All students enrolled in grades 6-12 or grades 9-12 are enrolled in the T-STEM but other grade levels exist on the campus (such as grades K-5).

Endorsements

Identify the current endorsements that are offered:

- Science, Technology, Engineering, and Mathematics (STEM)
- Business and Industry
- Arts and Humanities
- Multi-disciplinary Studies

Certificates

Does this academy offer Associate Degrees to students?

No

TSIA

Does this academy administer the TSIA exam?

Yes

What ID number do students use when taking the TSIA exam?

Local District Assigned ID

Key Elements for Success

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

<http://stem.harmonytx.org/advisory-board/>

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

https://drive.google.com/open?id=1_wNN1XwaCEBCuWj72IzCYKI8kTVajCr3

Provide a link to the academy's master schedules.

https://docs.google.com/spreadsheets/d/1pxFlcmP5u_bBJ58QsRa3zVMZpemh5EKJzkail7EjrjU/edit?usp=sharing

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

<https://secure.infosnap.com/family/ActionForms/Public/12378>

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://new.harmonytx.org/admissions.php>

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

<http://stem.harmonytx.org/internships/>

Free-Response

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

Harmony School of Innovation Katy is a highly recognized and award-winning public charter school that hires top quality teachers, administrators, and other professionals. Harmony strives to provide personal growth and professional success to recent graduates, alumni, experienced professionals, and seasoned experts seeking new career opportunities. We offer competitive salaries, great benefits, professional support, and opportunities for career advancement. Harmony School of Innovation Katy invests in developing teachers and leaders through high-quality programs, effective coaching, and ongoing professional development, with an especial focus on project-based learning as it is critical to our instructional framework. PBL-related professional development focuses on increasing consistent integration of PBL across disciplines. Our teachers are trained in PBL environments, instructional strategies, assessment techniques, and our PBL online platform. Our lead teachers and cluster and district-level instructional coaches take a developmental approach to building capacity over time via regular observations, campus visits, and team meetings and professional development sessions focusing on teacher support and best practices.

Describe the current STEM pathways available at the academy.

HSI-Katy offers the STEM endorsement through the following pathways: STEM Math, STEM Science, PLTW Biomedical Science, PLTW Computer Science, and Engineering (through a combination of UT Austin's Engineer Your World curriculum and PLTW Engineering coursework).

The STEM Math endorsement is earned by taking a total of five math credits during high school. HSI-Katy offers Algebra I, Geometry, Algebraic Reasoning, Algebra II, Precalculus, AP Statistics and AP Calculus; any combination of five of these classes, including Algebra II and one course for which Algebra II is a pre-requisite, will earn the Math endorsement. (Combining the PLTW Engineering coursework with AP math offerings can also earn our students recognition as an AP + PLTW scholar.)

STEM Science is earned by taking a total of five science credits. HSI-Katy offers Biology, Chemistry, Physics, AP Physics I, AP Physics C, AP Chemistry, AP Biology, and AP Environmental Science. Students must take Biology, Chemistry, Physics or AP Physics I, and any two additional science courses to earn this endorsement. (Combining the PLTW Engineering coursework, or the PLTW Biomedical coursework with AP science offerings can also earn our students recognition as an AP + PLTW scholar.)

The STEM endorsement may also be earned via Project Lead the Way coursework in Biomedical Science, Computer Science, or Engineering. The Biomedical Science pathway includes the courses Principles of Biomedical Science, Human Body Systems, Medical Interventions, and Biomedical Innovation. Computer science coursework includes Computer Science Essentials, AP Computer Science Principles, Cybersecurity, and AP Computer Science A. Our Engineering pathway combines the PLTW Engineering courses Introduction to Engineering Design, AP Computer Science Principles, and Digital Electronics with UT Austin's Engineer Your World course Engineering Design and Problem Solving as its capstone course.

The PLTW pathways may be combined with AP math and science offerings to earn AP + PLTW recognition as described above.

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.

HSI-Katy has strong parent and family engagement, but we also recognize how important it is to establish ties with our community and form effective partnerships with institutes of higher education and business and community leaders. We respond to diverse community needs and interests and leverage community resources by building and sustaining positive relationships with not only our families, but also our community partners.

We have active MOUs with both Houston Community College and Lone Star College and are in the process of establishing one with the Fort Bend campus of Texas State Technical College.

We have partnered with over eleven community businesses to provide our students with job shadowing experiences. During the 2018-2019 school year thus far, over sixty of our students have attended job shadowing opportunities at five different medical sites, three engineering firms, and various other finance- and marketing-related companies.

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

Harmony Public Schools as a district does not offer work-based learning programs such as Career Preparation I and II; however, contextual learning is deeply embedded in our STEM curriculum with extensive use of project-based learning and inquiry-based learning approaches.

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

Our STEM pathways and curriculum are supplemented by FIRST robotics teams, SeaPerch underwater robotics, HOSA-Future Health Professionals, Science Olympiad, MATHCOUNTS, and an environmentally-focused club, Galveston Baywatchers.