



# HARMONY SCIENCE ACAD (SAN ANTONIO)

T-STEM Renewal Application

2019-2020

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# Background

## District Affiliation

HARMONY SCIENCE ACAD (SAN ANTONIO)

**CD #:** 015828

**Region:** 20

**Mailing Address (Line 1):** 9321 W SAM HOUSTON PKWY S

**Mailing Address (Line 2):**

**City, State, Zip:** HOUSTON, TX 77099

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## School Affiliation

HARMONY SCIENCE ACAD (SAN ANTONIO)

**CDC #:** 015-828-001

**Region:**

**Mailing Address (Line 1):** 8505 LAKESIDE PKWY

**Mailing Address (Line 2):**

**City, State, Zip:** SAN ANTONIO, TX 78245

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## Academy Information

**T-STEM Academy Name:**

HARMONY SCIENCE ACAD (SAN ANTONIO)

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

No

**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	140	HARMONY SCIENCE ACAD (SAN ANTONIO) (015828001)
7	134	HARMONY SCIENCE ACAD (SAN ANTONIO) (015828001)
8	133	HARMONY SCIENCE ACAD (SAN ANTONIO) (015828001)
9	110	HARMONY SCIENCE ACAD (SAN ANTONIO) (015828001)
10	105	HARMONY SCIENCE ACAD (SAN ANTONIO) (015828001)
11	97	HARMONY SCIENCE ACAD (SAN ANTONIO) (015828001)
12	105	HARMONY SCIENCE ACAD (SAN ANTONIO) (015828001)

# Contacts

## Business Partner

**Affiliation:** LED Electric & Lighting Contractors  
**Job Title:** President, LED Electric & Lighting Contractors  
**Full Name:** Mr. Ubaldo Parra  
**Email:** [ubaldo.parra@ledelectric.us.com](mailto:ubaldo.parra@ledelectric.us.com)  
**Phone Number:** 210-802-8320

## Superintendent

**Job Title:** Area Superintendent  
**Full Name:** Dr. Bilgehan Yasar  
**Email:** [byasar@harmonytx.org](mailto:byasar@harmonytx.org)  
**Phone Number:** 210-267-9954

## Applicant

**Job Title:** High School Assistant Principal  
**Full Name:** Dr. Mario Duran  
**Email:** [mario.duran@harmonytx.org](mailto:mario.duran@harmonytx.org)  
**Phone Number:** 210-674-7788

## IHE Liaison

**Affiliation:** Northwest Vista College  
**Job Title:** Dual Credit Director of High School Programs  
**Full Name:** Ms. Julie Boerm  
**Email:** [jboerm@alamo.edu](mailto:jboerm@alamo.edu)  
**Phone Number:** 210-486-4261

# 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

## Certificates

**Does this academy offer Associate Degrees to students?**

No



## TSIA

Does this academy administer the TSIA exam?

Yes

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

Other: Alamo Colleges Banner ID

## Key Elements for Success

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

<https://docs.google.com/document/d/1MPnkkhfMMWBxEoDoHMvca5R9tjhScYGLtxEVJEq69mE/edit?usp=sharing>

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

<https://docs.google.com/document/d/1MPnkkhfMMWBxEoDoHMvca5R9tjhScYGLtxEVJEq69mE/edit?usp=sharing>

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

<https://docs.google.com/document/d/1MPnkkhfMMWBxEoDoHMvca5R9tjhScYGLtxEVJEq69mE/edit?usp=sharing>

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

<https://docs.google.com/document/d/1MPnkkhfMMWBxEoDoHMvca5R9tjhScYGLtxEVJEq69mE/edit?usp=sharing>

**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://docs.google.com/document/d/1MPnkkhfMMWBxEoDoHMvca5R9tjhScYGLtxEVJEq69mE/edit?usp=sharing>

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

<https://docs.google.com/document/d/1MPnkkhfMMWBxEoDoHMvca5R9tjhScYGLtxEVJEq69mE/edit?usp=sharing>

## Free-Response

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

Harmony Public Schools holds annual job fairs. For job-seekers convenience the district hosts the job fairs at several locations and on different dates.

Continuous efforts are made throughout the year to recognize employees who make an extra effort to contribute to the success of Harmony Public Schools at the end of each semester. HPS encourages all faculty/staff members to participate in team building activities to create a positive, caring and welcoming school culture.

Harmony Public School's Staff Recognition Program is designed to create a positive school environment and increase staff motivation, retention rate, and loyalty to the school system in order to better serve students for greater academic achievement, and social development.

We also offer the follow:

- \* a comprehensive compensation packages for all staff, including base salary, benefits, bonuses, and stipends. dynamic culture and vibrant community of colleagues united by shared dedication to students, a commitment to innovation, and a strong growth mindset
- unique career pathways, growth and development opportunities, and leadership roles that encourage staff to stretch themselves
- equitable compensation, regardless of gender, race/ethnicity, national origin, sexual orientation, age, religion, or disability
- a transparent and clearly communicated compensation system, so that staff understand what factors determine individual compensation and how and when potential changes to compensation will be effected

Stipend included, but not limited to:

Dual Credit Teacher: \$1000

Math and Science teachers receive an additional \$2000 stipend.

Hard-to-Staff Subject Areas:

\* Hard to-staff subject area teachers are eligible to receive additional stipends. Math, Science, Computer and Technology Applications, Bilingual, ESL, GT, Special Education, and Dyslexia Teachers will receive an additional \$2000 annually.

\* English Language Arts and Reading, Social Studies, and Generalist teachers will receive an additional \$1000 annually.

\* CTE Teachers (defined as a teacher teaching a minimum of 3 year-long CTE coded courses) will receive an additional \$6500 annually. For each additional (4th and beyond) year-long CTE coded course that they teach, they will also receive the Supplemental Duty CTE Teacher Stipend. (For stipend information refer to pages 7-8)

\* This stipend is included in your annual salary and will be prorated based on the number of days that you work.

\* Teachers are only entitled to one Hard to-staff stipend, which is assigned based on their job title

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

Our two STEM pathways are:

Engineering-(9th grade) Introduction to Engineering Design (PLTW); (10th grade) Civil Engineering & Architecture (PLTW); (11th grade) Principles of Engineering (PLTW); and (12th grade) Engineering Design & Development (PLTW)

and

Computer Science-(9th grade) Introduction to Computer Science (PLTW); (10th grade) Computer Science Principles (PLTW); (11th grade) Computer Science Application (PLTW); and (12th grade) Cybersecurity (PLTW)

For middle school, along with STEM course offerings, we offer FUSE STEAM that facilitates learning through 'making,' develops 21st-century skills, and builds collaborative, youth-centered learning communities. FUSE is designed for students in middle and high school, but is also implemented in community colleges and in lower elementary in some contexts.

For 8th grade, PITSCO is offered that has career-focused curricula integrates a variety of college- and career-readiness skills while providing academically relevant learning opportunities for students in kindergarten through Grade 8.

**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.**

We know how important parents are to a student's educational career, but we also know how important it is to establish ties in the community and form partnerships with higher education institutions, business and community leaders. An education leader promotes the success of every student by collaborating with faculty and community members, responding to diverse community interests and needs, and mobilizing community resources. This is why we try to get MOUs with IHEs, T-STEM centers, and community/business partners.

Business partners provide a valuable resource for our students. These partners serve as mentors, and intern/externship opportunities for our students. In addition, they serve as special speakers that visit classrooms to provide a real-world example of what students are learning.

IHEs serve a great academic resource to our students. Students are able to attend these institutions and receive specialized instruction, in addition, to certification opportunities.

Our most important ally are our parents who are the backbone for our campus. We make it an effort to purposely involve parents in the education of their child. Throughout the year we invite parents to participate in school meetings where their input is considered in making necessary changes involving school improvement.

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

Harmony's unique approach of implementing Project Based Learning (PBL) is a nationally recognized model. The Harmony approach is to maintain the focus on standards-based and student-centered teaching while enriching and extending the learning of students through PBL projects. The goal is to promote not only collaborative skills and student ownership of learning but also to promote student success in state and national standards.

The Project Based Learning initiative, launched during the 2013-2014 school year, addresses the increased need for students to acquire 21st century skills. Through Project Based Learning (PBL), students are exposed to deep learning experiences that are inquiry-based, student-centered, and integrated to the curriculum. The Harmony approach is to maintain the focus on standards-based and student-centered teaching while enriching and extending the learning of students through PBL projects. The goal is to promote not only collaborative skills and student ownership of learning but also to promote student success in state and national standards.

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

**American Math Competition:**

Math competition with other school districts

**Coding Club-HS:**

Coding affects almost all aspects of modern life and all students deserve a coding education that prepares them to pursue the wide array of intellectual and career opportunities that coding has made possible. This club is not a tour of current events and technologies. Rather, this club seeks to provide students with a "future proof" foundation in coding principles so that they are adequately prepared with both the knowledge and skills to live and meaningfully participate in our increasingly digital society, economy, and culture.

**CyberPatriot:**

The goal is to expose students to the growing field known as Cyber Security

**Math Count:**

Allow students to compete with other students in the math field

**Robotics FTC:**

In this club students form a robotics team and get prepared for robotics competitions by designing, building, and programming.

**Robotics FLL:**

In this club students form a robotics team and get prepared for robotics competitions by designing, building, and programming. Compete in local FLL qualifier meets.

**SAWS Impact:**

To help refuse, reuse and recycle water and make a positive impact on the environment.

**Science Olympiad:**

A variety of events are present in science Olympiad. Students choose and get ready to contest. Requiring preparation, commitment, coaching and practice throughout the year.

**TAME:**

For over forty years, TAME has worked to encourage the participation of women and minorities in STEM careers through innovative, hands-on science programming for K-12 students across Texas. Our strong network of K-12 educators, institutes of higher education, and industry partners helps us share ideas and concerns and to deliver targeted, relevant, and cutting-edge programming. We offer age-specific programs to spark and support student interest in STEM; professional development and curriculum ideas for teachers; and locally relevant events to educate families and communities about opportunities in STEM.

**Ignition Green:**

To spread climate change awareness to Kids 6-12, this club hopes to create an outreach program that encourages students to take an active role in combating climate change. The club hopes to make the school and community more eco-friendly.