

# Funding Application

## GENERAL INFORMATION

### Organization Information

<b>Legal Name:</b> SASTEMIC	<b>Federal Tax ID#:</b> 45-2690350	<b>501(c)(3) Public Charity</b>	
<b>Address:</b> 102 Mabry, Suite 100	<b>City:</b> San Antonio	<b>State:</b> TX	<b>Zip Code:</b> 78226
<b>Website:</b> www.sastemic.org	<b>Fax:</b> (210) 338-0439	<b>United Way Funded:</b> No	

### Head Of Organization

<b>Name:</b> Jake Lopez	<b>Title:</b> Executive Director
<b>E-Mail Address:</b> jake.lopez@sastemic.org	<b>Phone:</b> (210) 338-0493

### Application Contact

<b>Name:</b> Jake Lopez	<b>Title:</b> Executive Director	<b>E-Mail Address:</b> jake.lopez@sastemic.org	<b>Phone:</b> (210) 338-0439
----------------------------	-------------------------------------	---	---------------------------------

**Has the organization applied to the Najim Family Foundation in the past and been declined?**

No

<b>Grant Amount Requested \$:</b>	<b>Total Project Budget \$:</b>	<b>Organization's Annual budget \$:</b>
\$20,000	\$81,815	\$357,000

### Mission Statement:

SASTEMIC delivers services focused on creating a capable STEM workforce, advocating for STEM, and connecting stakeholders across the San Antonio community.

## PROJECT INFORMATION

### Program / Project Title:

STEM Technology: Past, Present, and Future

### Harvey E. Najim Family Foundation Priorities:

Education

### Program / Project Description:

According to the U.S. Bureau of Labor Statistics, the United States will have more than 9 million jobs that are science, technology, engineering and mathematics (STEM) related occupations by 2022. That is a growth of approximately 100,000 per year, yet there will be a significant shortage of qualified high school and college graduates to fill all of these career opportunities. This is also true for San Antonio where there is a booming STEM economy. Many of the local industries are faced with importing talent and workforce due to the lack of skilled and technical workforce available in San Antonio. With the STEM Technology program, we seek to inspire and encourage the next generation of STEM workers by engaging them with industry aligned education programs. Many of the local area schools do not have fully developed STEM programs. Our goal is to provide services for these schools, many of which are Title 1 schools that are in the San Antonio region. Our priority demographics of service includes females, minorities, and students who are economically disadvantaged.

By offering these programs to our local students, we can ensure that future of San Antonio is properly prepared for the wave of STEM careers that already exist and that are soon to come as well as provide homegrown talent for local companies and corporations in STEM fields.

The purpose of the STEM Technology program is to serve students from the local area with the opportunity to explore STEM career pathways they might not otherwise have access to. Though our program will serve all students, we are emphasizing students from lower socio economic backgrounds and from upper elementary and middle school grade levels. Students from lower socio economic backgrounds typically do not have access to supplemental schooling such as camps and private lessons. These types of extracurricular activities can lead to higher test scores and better grades. Most of the schools that these students attend do not have fully developed STEM programs and the STEM Technology aims to balance out that difference. According to Johns Hopkins, they explained that families with better access to resources can put students in a better position to excel. Parents with this access are more likely to have the education and opportunity to work with their children daily. By providing STEM Technology program, we are able to help close the gap to resources. A reason for targeting upper elementary and middle school students is because according to the United States Department of Education (USDOE), success in those grade levels is a major factor in students' decisions to drop out of high school. By engaging students at an early age and familiarizing them with STEM career opportunities, they will be inspired to take the required courses necessary to become college ready or marketable in the STEM workforce after graduating high school.

There will be a total of 60 students per day participating in our STEM sessions. Thirty students will tour the technology museum to get a historical perspective of technology, while the other 30 students will be participating in a hands-on session of current technology. SASTEMIC has partnered with the San Antonio Museum of Science and Technology (SAMSAT) to offer the museum component of the STEM Technology program. The hands-on STEM topic sessions have been developed to be aligned with industry programs including Robotics, 3D Printing, Video Game Design, Wind Energy, and Structural Engineering among others. Both aspects of past and present technologies will allow students to work on potential future technologies based on the sessions they participate in.

As mentioned previously, the STEM Technology program will provide an opportunity to serve all students from San Antonio but the students that are from lower socio economic backgrounds will be from schools labeled as Title I. A majority of these schools will be located in close proximity to our facility, primarily in zip codes 78203, 78207, 78211, 78226, 78227, 78237, and 78242. Schools in these areas have been identified based on the economic situation and grade levels served. According to the US Census Bureau, the San Antonio zip code 78203 reported 46% of residents living at or below the poverty level as compared to San Antonio's average of 19.9%. The same report showed that residents in zip code 78207 had a poverty rate of 48%, while those living in zip code 78211 had a poverty rate of 42%, those in zip code 78226 had a poverty rate of 36%, zip code 78227 had a poverty rate of 26%, those in zip code 78237 had a poverty rate of 39%, and those in zip code 78242 had a poverty rate of 44%. By partnering with SAMSAT to deliver services to all local students and with a focus on students in these zip codes SASTEMIC is able to help curb and/or break the cycle of families living in poverty by offering students access to potential STEM career opportunities through the varying STEM topics we will be offering.

Goals that SASTEMIC has for the STEM Technology program is to have at least 85% students participating in the program be from Title I schools; at least 50% of students served are females; at least 55% of the students served are in grades 4th-8th grades; and at least 80% of students increase their knowledge and awareness of STEM and be inspired to pursue STEM careers.

### Evaluation Plan:

The goals of the STEM Technology program are evaluated by collecting data on students served to ensure we are able to meet or exceed those goals in regards to demographic information such as economic background, male or female, and grade level. As far as student engagement and interest in our program, surveys are given to students at the end of each session to determine their engagement on each topic. Their input is qualitative but is transferred to quantitative data as a percentage based on the rankings students provide on their surveys for each topic. Our program will have a goal of 80% positive results from students surveys across the board with regards to students increasing their STEM knowledge, becoming aware of STEM careers available, being engaged in each topic, and being inspired to pursue enrollment in STEM courses at their home campus.

**Plans to sustain project beyond the term of this request:**

SASTEMIC's plan to sustain the STEM Technology program is to continue to seek funds from local companies, foundations, and private donors. Reason being, most of the students served through this program would not be able to afford a cost associated with it. For those students and schools that are able to afford the fees for the program, we will be charging. Based on our initial research, SASTEMIC would be able to charge 40% of the schools that participate in our program and the remaining 60% of funding would need to be raised in order to sustain the STEM Technology program and have it accessible to all students.

**Children Impacted:**

How many unduplicated children will the TOTAL PROJECT INITIATIVE impact?	How many unduplicated children will NFF REQUESTED FUNDS impact?
9,300	1,200

Please provide the percentage of each group below that will be served by the project in which funds are being requested. Do not leave any area blank. If that specific group will not be served, include zero. The percentage should total 100%.

A. Population Served Age		B. Population Served Ethnicity	
Infants (0-5)	0%	African American	7%
Children (6-13)	55%	Asian American	1%
Young Adults (14-18)	45%	Caucasian	12%
<b>TOTAL:</b>	100%	Hispanic/Latino	78%
		Native American	1%
		Other and Define	1%
		<b>TOTAL:</b>	100%

**City Council District for Which Children are Being Served:**

District1, District2, District3, District4, District5, District6, District7, District8, District9, District10

**Line item Budget:**

Line Item Description	Total Project Funds Allocation	Najim Funds Allocation
Salaries & Benefits	\$41,850	\$10,000
Curriculum Development	\$39,365	\$10,000
<b>TOTAL:</b>	\$81,215.00	\$20,000.00

## OTHER FUNDING RESOURCES

**For Project being Requested: Funding sources and amounts, pending and committed.**

### PROJECT - PENDING

Funder Name	Amount Requested
AT&T	\$10,000
Texas Education Agency	\$11,215
New York Life	\$25,000
Boeing	\$10,000
<b>TOTAL:</b>	\$56,215.00

### PROJECT - COMMITTED

Funder Name	Amount Requested
Jim Perschbaugh	\$2,500
Matt Reedy	\$2,500
<b>TOTAL:</b>	\$5,000.00

**Other funding sources and amounts, pending and committed not specific to this request.**

### ALL OTHER ORGANIZATION REQUESTS - PENDING

Funder Name	Amount Requested
USAA	\$100,000
San Antonio Area Foundation	\$60,000
Rackspace	\$10,000
<b>TOTAL:</b>	\$170,000.00

### ALL OTHER ORGANIZATION REQUESTS - COMMITTED

Funder Name	Amount Requested
Andeavor	\$75,000
<b>TOTAL:</b>	\$75,000.00

## BOARD OF DIRECTORS

**What percentage of your board contributes financially to the organization?**

100%

**How are board members expected to participate in your organization?**

All board members are to give financially to the operations of SASTEMIC. Each board member is obligated to fundraise by encouraging individual donors and working with foundations and/or corporations for sponsorship of SASTEMIC's programs. In addition, all board members serve on at least one sub committee taking on certain tasks to meet the goals and mission of SASTEMIC. All board members also represent SASTEMIC by advocating our mission to others, educating community members on our impact, and recruiting for other potential board members who can contribute and benefit the organization.

### LIST OF BOARD DIRECTORS

Name	Corporate Affiliation
Matt Reedy	Community Member
Jacques McGregor	Andeavor
Allison Levine	Accenture
Emily Boice	Mind Science Institute
Scott Gray	Elevate Systems

Rudy Reyna	GoPROBE Consulting
Belinda Flores	UTSA
Mark Appleford	UTSA
Cliff Zintgraff	DaVinci Minds