

**INSPIRE EQUIP IMAGINE**

FBISD Engineering



ACADEMY



# Engineering Academy Open House

6:30-7:30 – Formal Presentation

October 20, 2019

**FBISD**



## Administrators and Counselors

Administrators	Counselors
Deidra Lyons-Lewis Principal	Dina Powis Lead Counselor, Sn-Z
Scott Campbell Assistant Principal, A-D	Kathleen Fey Counselor, A-C
Patrick Schultz Assistant Principal, E-L	Richerica Wolf Counselor, De-I
Amber Grady Associate Principal, M-R	Brian Williams Counselor, J-M
Lita Skinner Assistant Principal, S-Z	Brayion Sands Counselor, N-Sm
Debra Novosad Campus Assessment Coordinator	Narietha Carter-McClain College & Career Readiness Advisor

Donald Lam, Academy Coordinator

Clarissa Rodriguez , Director of SEL & Enrichment Programs

## Academy Officers

Student Officer	Position
Brandon Yeh	President
Kirthivel Ramesh	VP and Director of Houses
Harrison Pao	Secretary
Shenuka Wijeratne	Director of Communication
Joshua John	Digital Communication Officer
Jacob Thomas	Director of Activities
Janavi Seshadri	Events Logistic Coordinator
Jeffery Huang	Event Liaison
Punit Desai	Senior Class Representative

Donald Lam, Academy Coordinator

Clarissa Rodriguez , Director of SEL & Enrichment Programs



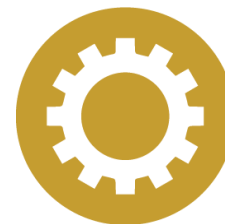
# Agenda

- Overview of the Engineering Academy
- Overview of the Application Process



## Why choose an academy?

- Member of a cohort
- Shared interest
- Enrichment opportunities
- Applicable coursework
- Dedicated coordinator
- Dedicated booster club



## Why choose the Engineering Academy?

- Elkins High School
- Qualified teachers
- Aero Space & Environmental Substantiality Engineering
- Opportunities to extend the learning outside of the classroom walls
- Internship Opportunities



Why choose the  
Engineering Academy?



# Top 3 Benefits Engineering Academy

- Work alongside and build inventions with practicing engineers
- Participate in engineering-related activities
- Draft, develop, create, and test an invention, and its iterations



# Our Talented Staff

Engineering	Science
Mrs. Yi Zhang Computer Information System	Mr. Kevin Schafer Architect/Project Manager
Ms. Jonetta Roquemore, Civil Engineering	Ms. Elizabeth Ward, Computer Science
Ms. Erica N. Edwards Electrical Engineering	Misha Newsome- Adams, Electrical Engineering

- Years of professional and teaching experience
- Intensive PLTW Training
- 3 PLTW Trained Teachers
- 1 former civil engineer
- 2 former electrical engineers

FBISD

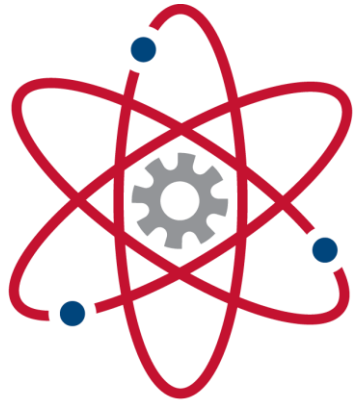
FBISD Engineering



ACADEMY



INSPIRE EQUIP IMAGINE



TEXAS INSTRUMENTS

bp



LOCKHEED MARTIN



PROJECT LEAD THE WAY

PLTW



Alcon

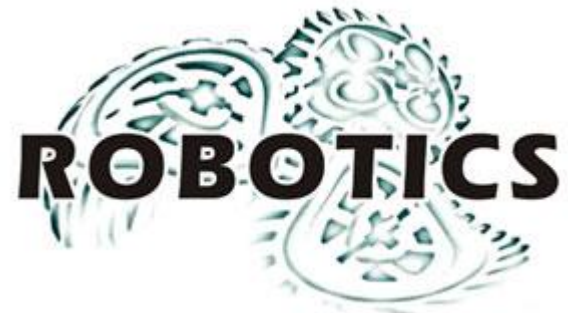
VERTICAL AT



UNIVERSITY OF HOUSTON



RICE BCM Baylor College of Medicine



# Enrichment Opportunities

Internships through local government offices, universities, and companies:

- Cities of Sugar Land & Missouri City
- Vertical Automation
- Volta, BP, and TI
- UH, TSU, & Rice University

Field trips to companies and universities in the community:

- Baylor College of Medicine – Prosthetics and Orthotics Lab
- Amazon Warehouse
- City of Missouri City
- Houston Baptist University
- University of Houston

Guest Speakers:

- Mrs. Sherri McElwee, Jones Carter
- Mr. Sagar Vidyasagar, Lockheed Martin
- Mr. Trey German, Texas Instruments
- Mr. Gerald Reece, DOW Chemical



TEXAS SOUTHERN UNIVERSITY



UNIVERSITY OF HOUSTON



Baylor College of Medicine



JONES | CARTER



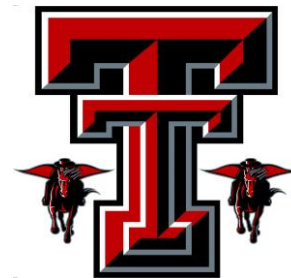


# Athletic Disclaimer



Any student attending an academy outside of the attendance zone in which he/she resides, will be ineligible for varsity athletic competition for one calendar year.

# Where do they go?



# What do they study?



- Applied Mathematics
- Applied Physics
- Architecture
- Biomedical Engineering
- Biotechnology
- Chemical Engineering
- Civil Engineering
- Computer Information Systems
- Computer Science
- Electrical Engineering
- Engineering Management
- Industrial Engineering
- Mechanical Engineering
- Petroleum Engineering
- Pre-Med Program

# FRESHMEN Year Plan

Discipline	MS Credits	9 <sup>th</sup> Grade	
English		English I	
Math	Algebra I PAP	<b>Geometry PAP</b>	
Science		<b>Biology PAP</b>	
Engineering	<b>SAMPLE</b>	<b>Intro Eng Design</b>	
Social Studies		World Geography	
Languages		Language I	
Fine Arts			
PE/Equiv			
Electives			Comp Sci PAP
Electives			

**APPLY NOW**

- Applications can be found online at:  
<https://academy.fortbendisd.com/>  
 (Opened **November 1, 2019**)
  
- Completed applications are due on  
 or before **November 30, 2019**
  
- More information can be found at:  
<http://www.fortbendisd.com/engineering>





# Application Process

Current FBISD Students	Non-FBISD Students
Sign in using your Student User Name & ID (just like you would into a school computer)	Sign up using your email address and password
Answer All Questions	Answer All Questions
Address, parent information, and zoned campus are automatically pulled from Skyward	Input your address, parent information, and zoned campus information
Select the Academy(ies) for which you wish to apply	Select the Academy(ies) for which you wish to apply
Select the priority of each academy (1, 2, 3, ...)	Select the priority of each academy (1, 2, 3, ...)
No additional documentation is needed	Upload a PDF copy of the 7 <sup>th</sup> grade report card and the 7 <sup>th</sup> grade standardized test. Also, input the actual 7 <sup>th</sup> grade grades
Hit the Submit button to submit your application	Hit the Submit button to submit your application

# Application Timeline



Step 1: Apply Online

Step 2: Get Validated

Step 3: Sit for the Exam/Interview – January (11, 18, 25)

Step 4: Get Notified

    Priority 1 Notifications – Feb. 10th

    Regular Window Notifications – Feb. 18th

    Waitlist Notifications – Feb. 25th

Step 5: Commit

Step 6: Attend Commitment Night – March 19th

# Applicant Requirements

- Success on all sections of the 7<sup>th</sup> grade STAAR
- Currently resides in FBISD Attendance zone
- Currently in the 8<sup>th</sup> Grade

# Academy Selection Criteria

- 7<sup>th</sup> grade semester grades in Math, Science, SS, ELA
- 8<sup>th</sup> grade semester grades in Math, Science, SS, ELA
- Academy entrance exam grade

# Academy Entrance Exam



- 1 test for three academies:
  - Engineering Academy
  - Math and Science Academy
  - Medical Science Academy
- January 11, 18, 19 (8:30 AM Session and 10 AM Session)
- Check-In at 30 minutes before schedule testing time
- Student Email – Application (Office 365)
- Email Reminder
- Test Topics:
  - 8<sup>th</sup> Grade Math
  - Algebra I

# Final Acceptance

Is contingent upon:

- Successful completion of all 8<sup>th</sup> grade courses during the academic school year
- Successful completion of all parts of the 8<sup>th</sup> Grade STAAR exam



# Contact Information



[www.fortbendisd.com/domain/2399](http://www.fortbendisd.com/domain/2399)



[www.fortbendisd.com/Domain/2402](http://www.fortbendisd.com/Domain/2402)



[www.fortbendisd.com/Domain/2404](http://www.fortbendisd.com/Domain/2404)

**Donald Lam**

Academy Coordinator

Engineering Academy  
Elkins High School

Medical Science Academy  
Hightower High School

Math and Science Academy  
Dulles High School

[donald.lam@fortbendisd.com](mailto:donald.lam@fortbendisd.com)

Office: 281-634-5645

Fax : 281-327-2931