

**DiscoverE's
32nd Future City Competition
2023 - 2024
26th Houston Texas Regional
Saturday January 20, 2024**



<https://futurecity.org/future-city-regions/texas-houston/>

**Future City is a project based STEM learning program where students in
6th, 7th & 8th grades imagine and build design cities of the future.**

**The 2023-2024 Theme
Electricity Your Future**

**Design 100% electricity powered city with energy generated from sources that keep citizens and the
environment healthy and safe.**



Location

**Gilruth Center
(NASA/Johnson Space Center)
18600 Space Center Blvd.
Houston, Texas 77058**

<https://maps.app.goo.gl/8KzUizjniGyjQ1L1A>

Schedule of Events	
Friday Jan 19, 2024	
6:00 - 9:00 PM	Model Setup
Saturday Jan 20, 2024	
7:00 - 8:00am	Model Set-up
7:30 – 8:30am	Judges Orientation
8:30am – noon	Preliminary Round Judging
	(Post, Model Viewing, Oral Presentation, Q&A)
Noon	Lunch (all guest, parents)
12:30 – 1:30pm	Public Display of Models
1:00pm	Announcement of Top Five Finalists
1:30 – 3:00pm	Final Round Judging (Celebrity Judges)
	(Team presentations, model viewing, Q&A)
3:00 – 3:30pm	Welcoming remarks
	Moiz Husain – Houston Regional Coordinator
3:30 – 4:30pm	Awards Presentation Ceremony & Volunteers / Judges Recognition

Future City Competition Structure

The Problem: Design and build a Future City

Phase I: Design City

Team designed city using optional software New SimCity™ provided by Maxis

Phase II: Essay

Students write a 1,500- word essay that describes the unique attributes of their city and provides a solution to this year's challenge—Climate Change

Phase III: Build Model

Team built a scale model of a section of the city

Phase IV: Verbal Presentation

Students prepared a 5-7 minute presentation explaining the design and function of their futuristic city

Project Plan: Power Point

Submit a power point on the project planning and execution.

Engineering Celebrity Judges (for final round)

Sami Khaleeq	Commissioner for City of Houston Planning & Development
Elizabeth Byrd, P.E.	Young Engineer of the Year
Patricia Frayre, P.E.	Houston Engineers Week Chair
Jim Bailey	CIO Binkley Barfield
Melvin Spinks	TSPE Engineer of the Year
John Gunner	ExxonMobil Development Planning Manager

2023 - 2024 Houston Texas Regional Committee

Regional Coordinator	Moiz Husain- ExxonMobil
Ex- Regional Coordinator	Zafar Taqvi - IEEE/ISA/AIAA
Facilities/Food Coordinator:	Nelson Vazquetelles - Boeing
Registration and Logistics:	Laura Cordova - CGS Digital Marketing
Judges Recruitment /Professional Societies Coordinator:	JR Reddish - Binkley Barfield, Erik Sanchez – Baxter & Woodman
Judging Coordinators:	Harold Cheek / Danial Taqui – Retired Baytown City Planning
Data / Scoring:	Laura Cordova
Online Judging:	Erik Sanchez / Nazer Taqvi - Attorney Paul Svensson, Sabia Abidi – Rice University
Project Plan Judging:	Erik Sanchez
Essay Judging Coordinator:	Nazer Taqvi
Regional Coordinator's Awards:	J.R. Reddish, Sarah Taqvi, Nazer Taqvi
Stage and Announcement:	Nelson Vazquetelles Sabia Abidi
Program, Publication, Certificates:	Talat Hussain - Boeing Laura Cordova
PR and Publicity Director	Sarah Taqvi

FC 2023-2024 committee thanks all organizations (especially Binkley and Barfield) who supported this event with finances, personnel, material or facility support.

Academic Organizations Registered

JSTEM Academy	Lake Travis ISD
Beckendorff J H	Academy Of Accelerated Learning
Odyssey Academy - Bay Area	Crockett J H
Scotlandville Pre-engineering Academy	La Vega H S
The Circle School	Roy Miller H S And Metro School Of Design
Lake Elementary School	Hill Country Middle
St. John Paul II Catholic School	Branch School
Lamar J H	St. Stephen's Episcopal School
Al-hadi School Of Accelerative Learning	St Anne Catholic School
Jefferson Middle	Alexandria Country Day School
The Village School	Leblanc Middle School
Youree Dr. Middle Advanced Placement Magnet School	Lacoste Elementary School
Westdale Middle School	STEM
Legacy Of Educational Excellence H S	Klein ISD -- Wunderlich Int
St Helen Catholic School	Young Women's Leadership Academy Pri At Page
South San Antonio ISD	Harmony School Of Endeavor Austin
Center for Houston's Future	Founders Classical Academy Of Schertz
Scotlandville Magnet High School	School Of Science And Technology Corpus Christi
Capitol Middle School	Harmony School Of Excellence - Sugar Land
WC Family	Sugar Land HuaXia Chinese School
Prairie Lea School	The International School of Texas
Rene A. Rost Middle School	Harmony School Of Innovation - Katy
Angleton J H School	Allen Academy
Eisenhower H S	School Of Science and Technology-Spring
Christ the Redeemer Catholic School	Odyssey Academy
The grove community school	Harry Wright J H
Bellville H S	Everest Academy
Canyon Vista Middle	Cedar Valley Middle School Future Cities Club
Gilbert Gerdes J H	MCHS
Ilm Academy	Our homeschool

Registered / Participating Teams

Damascus Syria
Sabea
Hexi
JSTEM Atlantis
Auctus City
Pasciphycanniya
Aquatopia
JADES City
Avenir
Vikings of the Future
Nyanza-Sagara
Fursa
Beausoleil
Harikoa City
Airadise
Voltara Springs
Saverne
ElectriCityzen
Westdale Middle School, East Baton Rouge
Serenity
Shangri-La
Dazzee

Judges Acknowledgment

Name	Affiliations	Name	Affiliations
Liliana Gonzalez	SHPE	Gabe Jeka	ExxonMobil
Ruthelen Robinson	Spring Branch ISD	Hamzah Yahya	IBM
Francisca Ogundele	Shell	Sai Gowthami Asam	Versa Infrastructure
Jeffry Handal	Cisco Systems	Markus Soellner	Linde
Thomas Sarver	Entergy Service LLC	Ivan Swindull	ExxonMobil
Dorcas Adetoyinbo	Ignite Community School	Rukmangada Ghanta	USAA Federal Savings Bank
Karen Kubos	Conсор Engineers LLC	Nitsuh Ababayehu	ExxonMobil Corp.
Alfonso Mireles	Conсор Engineers LLC	Erik Sanchez	Baxter & Woodman
DIPAL OZA	Linde Engineering North America	Joseph Young	Rice University
Jagdish Prajapati	Linde Engineering Americas	Kalil Erazo	Rice University
Taylor Jeka	EM	Todd Leonard	Shell USA
Mark Smith	DCP	Mike Scanlon	Norex Engineering
Irene Chan	Summit Technologies & Solutions Inc.	Suzanna Set	Harris County
Rena Schlachter	NASA	Leonard Lachmann	-
Catherine Gilliland	Huitt Zollars Inc.	Timesha Beattie	Harris County
Brittney Johnson	ExxonMobil	Aaron Orozco	BGE
Kirtan Trivedi	ExxonMobil	Natalie Rozinoye	BGE
Thomas Watson	ExxonMobil	Janice Noeldner	Baxter & Woodman
Shahid Jamil	IEEE	Cameron McEacharn	ExxonMobil
Camran Khan	ExxonMobil (Retired)	Bubba Brownley	ExxonMobil
Jingyan Wang	Linde	Janessa Schaefer	ExxonMobil
Leah Garcia	ExxonMobil		

Awards

- ❖ National Society Sponsored Awards
 - NCEES (National Council of Examiners for Engineering & Surveying)
 - PMIEF (Project Management Institute Educational Foundation)
 - ASCE (American Society of Civil Engineers)

- ❖ Houston Regional Sponsored Special Awards
 - Best Spaced Based design
 - Best Environmental Friendly
 - Best Residential Zone
 - Best Manufacturing Zone
 - Areeb's Memorial Award
 - People's Choice Award
 - Most Creative use of materials
 - Best City Infrastructure
 - Best Moving Part
 - Rookie Team of the Year

- ❖ Best Engineered project – Sponsored by Binkley & Barfield

- ❖ Best Transportation System – Sponsored by TexITE (Texas Institute of Transportation Engineers)

- ❖ Regional Coordinator's Awards
 - Educator Award (based on project planning of the team)
 - Mentor Award (based on engineering content of the project)
 - Student(s) presentation award (on presentation skill)

- ❖ Volunteers and Judges Recognition

- ❖ Regional Awards:
 - 1st Place (Regional Winner) – participates in Nationals in Washington D.C.
 - 2nd Place
 - 3rd Place
 - 4th Place
 - 5th Place

Cities of The Future –iMAX Film



Cities of the Future is produced in partnership with ASCE.

Film synopsis: As our climate changes and population grows, we must adapt to meet new challenges. *Cities of the Future* explores how today's engineers are designing solutions that will build a better world for everyone. From electric flying air taxis... smart cities... greener buildings... and solar energy beamed down from space... you'll discover new innovations that will change the way we live. Welcome to the future!

The movie parallels the Future City Competition itself, where students learn what it's like to be on a Future City team, they learn the role engineers play as mentors, and what it's like to go through the Finals in Wash DC. And more importantly, whether you win or not, you'll learn how fun it is to be an engineer and how engaging it is to build your own city of the future. The movie will help young students recognize the power they have to shape our world. In the film, we feature kids competing in the Future City Competition.

Cities of the Future, is going to be **playing in Houston at the Houston Museum of Nature & Science** starting in June.

Gilruth Center



<https://maps.app.goo.gl/8KzUizjniGyjQ1L1A>

Thank you for your support!

Binkley & Barfield

DCCM