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The University of Texas at Austin  
Women in Engineering Program  
Cockrell School of Engineering



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at UT Austin

SATURDAY, FEBRUARY 24 - 2018

INTRODUCE A GIRL TO ENGINEERING DAY  
PRESENTED BY

**HALLIBURTON**

GIRL DAY STEM FESTIVAL PRESENTED BY



## SCHEDULE

11:30 AM - 5 PM **ACTIVITIES, DEMOS, SHOWS** *details inside*

**"FUTURE TECHNOLOGIES" STAGE** *presented by BAE Systems*

11:30 AM

WELCOME with Halliburton

12 PM

WELCOME with BAE Systems

12, 1:15 & 2:30 PM UT AUSTIN PHYSICS CIRCUS · 1 hour shows

4 PM

SCIENCE IN THE MOVIES STEM STUNT SHOW · 1 hour show

5 PM

**INTRODUCE A GIRL TO ENGINEERING DAY CLOSING**

**"CREATING CHEMISTRY" STAGE** *presented by BASF Corporation*

12 PM

WELCOME with BASF Corporation

12:30 & 1:30 PM

UT AUSTIN FROZEN CHEMISTRY · 30 minute shows

3 & 4 PM

UT AUSTIN FUN WITH CHEMISTRY · 30 minute shows

4:30 PM

**GIRL DAY STEM FESTIVAL CLOSING** with Texas Instruments

**ABOUT THE WOMEN IN ENGINEERING PROGRAM** Connecting students, educators & professionals to the world of engineering through recruitment, education & support initiatives to promote the success & advancement of women in engineering. [ENGR.UTEXAS.EDU/WEP](http://ENGR.UTEXAS.EDU/WEP)

## K - 3RD GRADE

CPE 2.202	<b>Simple Concepts in Subsurface Engineering</b>   UT Austin Department of Petroleum and Geosystems Engineering
CPE 2.204	<b>Balloon Car Race Challenge</b>   Intel
CPE 2.206	<b>Bunny Copters - Paper Helicopters</b>   Girl Scouts of Central Texas, American Society of Heating, Refrigeration, and Air Conditioning
CPE 2.208	<b>Bubble Shapes: Create a Bubble Wand</b>   UT Austin Student Engineering Council
CPE 2.210	<b>Can You Handle the Pressure?</b>   YPW Camps, STARBASE Austin
CPE 2.212	<b>Screaming String Thing: What a Racket!</b>   KLRU-TV Austin PBS
CPE 2.214	<b>Rube Goldberg Machine: 20 or More Steps to Pour a Bowl of Cereal</b>   UT Austin American Society of Mechanical Engineers
CPE 2.216	<b>Wakey, Wakey, Makey, Makey!</b>   ChickTech Austin
CPE 2.218	<b>RoboMania</b>   National Instruments
CPE 2.220	<b>Gumdrop Dome</b>   UT Austin Chi Epsilon Civil Engineering Honor Society

## CPE BUILDING HOST: INTEL

## K - 5TH GRADE

ETC Entrance	<b>Exploring a Culture of Innovation</b>   Cirrus Logic
ETC Entrance	<b>Exploring Energy with Water Wheels, Handcranks, Solar Toys and More</b>   UT Austin Longhorn Energy Club
ETC Open Study Area	<b>Back to the Future: Engineering Hover Crafts</b>   UT Austin Society of Women Engineers
ETC Open Study Area	<b>Engineering Principles in Paper Airplanes</b>   Society of Women Engineers at Baylor University
ETC Open Study Area	<b>Parachute Parade: Safely Parachute A Pet</b>   Society of Women Engineers at San Antonio College, Society of Women Engineers at UT San Antonio
ETC Open Study Area	<b>Rescue Mission</b>   Society of Women Engineers - Austin, Texas State University
ETC 2.102	<b>Puff Mobile</b>   UT Austin Pi Tau Sigma - Texas Kappa Chapter Mechanical Engineering Honor Society
ETC 2.108	<b>Nuclear Chain Reaction: Ping Pong Mousetrap Mania</b>   UT Austin American Nuclear Society
ETC 2.114	<b>Sound Sandwiches and the Science of Sound</b>   UT Austin Engineering Chamber Orchestra
ETC 2.132	<b>Circuit Block Exploration</b>   Thinkery
ETC 2.136	<b>Fruit Power</b>   Schlumberger Excellence in Education Development
ETC 2.140	<b>Heat Check Yourself: Thermal Imaging in Real Time</b>   UT Austin Mid-IR Photonics Group

## ETC BUILDING HOST: CIRRUS LOGIC

## 4TH - 8TH GRADE

ECJ 2nd Floor Lobby	<b>Bats, Bees &amp; Butterflies: Pollination Station</b>   UT Austin Environmental Science Institute, UT Austin Environmental and Water Resources Engineering
ECJ 2nd Floor Lobby	<b>Catapultultimate Challenge</b>   UT Austin American Society of Mechanical Engineers
ECJ 1.202	<b>Heavy Loads: How Much Weight Can Your Bridge Design Hold?</b>   Halliburton, UT Austin National Society of Black Engineers
ECJ 1.204	<b>Helping Hands: Engineering Prosthetics</b>   UT Austin Women in Biomedical Engineering
ECJ 1.214	<b>Transportation: Getting You Where You Want to Go</b>   UT Austin Center for Advanced Multimodal Mobility Solutions, UT Austin Intelligent Transportation Society of America, Intelligent Transportation Society, UT Austin Women's Transportation Seminar
ECJ 1.222	<b>Super Golf Tower</b>   Wheeler, Ryan Companies, National Association for Women in Construction
ECJ 1.304	<b>Disappearing Objects: Fun with Optics</b>   UT Austin Biomedical Optics Graduates Organization
ECJ 1.306	<b>Get Your Brain STEM Stimulated: Hands-on Computer Science &amp; Engineering</b>   Girls in Tech Austin, Hello World
ECJ 1.308	<b>Beyond Post-its</b>   3M
ECJ 1.312	<b>Cupcake Coring</b>   Chevron, UT Austin Society of Petroleum Engineers
ECJ 1.314	<b>Earthquake Towers</b>   Fluor, UT Austin Women in Civil Engineering
ECJ 1.316	<b>Popsicle Stick Catapults</b>   UT Austin Student Engineers Educating Kids
ECJ 1.318	<b>Thrill Ride: Roller Coaster Engineering</b>   UT Austin Texas Theme Park Engineering Group
ECJ 1.322	<b>Catapult the Goldfish</b>   UT Austin Theta Tau
ECJ 1.324	<b>Virtual Reality Coding and Exploring Neuroscience with Physics</b>   Lake Travis STEM Academy

## ECJ BUILDING HOST: HALLIBURTON

## ALL GRADES

SWG Parking Lot	<b>Austin Spurs - STEM Fair at Girl Scout Night</b>   Austin Spurs (rain: ETC Entrance)
SWG Parking Lot	<b>Girl Scouts of Central Texas Information</b>   Girl Scouts of Central Texas (rain: CPE Entry Hallway)
SWG Parking Lot	<b>Girlstart: Girls in STEM Conference, Starry Nights, Camps and More!</b>   Girlstart (rain: EER 1st Floor Landing)
SWG Parking Lot	<b>Longhorn Racing: Engineering for Speed</b>   UT Austin Society of Automotive Engineers (rain: Speedway Garage)
SWG Parking Lot	<b>Stony Point High School's Solar Car Team</b>   Stony Point High School Solar Car Team (rain: Speedway Garage)
SWG Parking Lot	<b>Subsea Remotely Operated Vehicle Pilot for a Day</b>   Subsea Tieback Foundation
SWG Parking Lot	<b>Texas Colorado River Rolling Exhibit</b>   Colorado River Alliance
SWG Parking Lot	<b>Vortex Mobile STEM Scout Lab</b>   STEM Scouts
CPE Plaza	<b>Can You Withstand the Quicksand?</b>   UT Austin American Institute of Chemical Engineers
CPE Plaza	<b>Creating Catapults</b>   UT Austin Children's Research Center
CPE Plaza	<b>Dancing Polymers</b>   UT Austin Omega Chi Epsilon
CPE Plaza	<b>Energy Shaping Our World</b>   Pioneer Natural Resources (rain: CPE Hallway)
CPE Plaza	<b>Future Technologies with BAE Systems</b>   BAE Systems (rain: EER Ground Floor Atrium)
CPE Plaza	<b>Keep Your Boat Afloat</b>   UT Austin Mechanical Engineering Graduate Student Board
CPE Plaza	<b>Make Your Own Gummy: Gummies as Materials and Medicines</b>   UT Austin Ghosh Lab (rain: ETC 2.130)
CPE Plaza	<b>Slimy Slime Stuff</b>   UT Austin Undergraduate Chemical Engineering Women
CPE Plaza	<b>Super Sand Stratigraphy</b>   Austin Women in Oil and Gas
CPE Plaza	<b>Surrounded by Materials: Fruit Batteries, Cloud in a Bottle and More</b>   UT Austin Materials Research Society (rain: ETC Entrance)
ECJ Plaza	<b>#GirlBoss: Design Your Dream House or Pitch Your Putty!</b>   Kwaddle   Enrichment for Kids. Better for Parents. (rain: EER Ground Floor East Entrance)
ECJ Plaza	<b>Building Blocks: Skyscraper Challenge</b>   UT Austin American Society of Civil Engineers (rain: EER Ground Floor Atrium)
ECJ Plaza	<b>Concrete Explosions, Egg Cooking &amp; More Magical Wonders of Concrete</b>   UT Austin American Concrete Institute (rain: ECJ 2nd Floor Hall)
ECJ Plaza	<b>Engineers Improve the World</b>   Engineers Without Borders Greater Austin (rain: EER Ground Floor East Entrance)
ECJ Plaza	<b>Game Play - Your Own Way</b>   Science Mill (rain: RLM Ground Floor Lobby)
ECJ Plaza	<b>H2fromH2O: Solar Fuels via Water Splitting</b>   UT Austin H2 from H2O (rain: EER 2nd Floor Entrance)
ECJ Plaza	<b>LEGO Structure Architectural Engineering Design</b>   UT Austin Architectural Engineering Institute (rain: EER Ground Floor Atrium)
ECJ Plaza	<b>Let's Connect the World</b>   UT Austin Texas Engineering World Health (rain: EER Ground Floor Auditorium Foyer)
ECJ Plaza	<b>Sound All Around Us: Go Inside a Soundless Room</b>   UT Austin Acoustical Society of America (rain: ECJ 2nd Floor Hallway)

(rain: EER Ground Floor Atrium)

## "FUTURE TECHNOLOGIES" STAGE presented by BAE Systems

11:30 AM ..... WELCOME with Halliburton  
 12 PM ..... WELCOME with BAE Systems

12, 1:15 & 2:30 PM ..... UT AUSTIN PHYSICS CIRCUS · 1 hour shows  
 4 PM ..... SCIENCE IN THE MOVIES STEM STUNT SHOW · 1 hour show  
 5 PM ..... INTRODUCE A GIRL TO ENGINEERING DAY CLOSING



## 4TH - 8TH GRADE

### RLM BUILDING HOST: BASF CORPORATION

RLM Ground (4th) Floor Hall	<b>Learn How to Compose Music with a Banana, Play-Doh and a Makey Makey!</b>   Girls Empowerment Network
RLM Ground (4th) Floor Hall	<b>Physics Phun</b>   UT Austin Undergraduate Women in Physics
RLM 5.104	<b>Petal-Flower-STEM: An IdeaThon</b>   Experimental Civics
RLM 5.112	<b>Show and Tell: SuperIntelligence at HomeAway</b>   <b>HomeAway, An Expedia Company</b>
RLM 5.114	<b>Code Your Name</b>   <b>Dell Technologies</b>
RLM 5.116	<b>Circuits Circus</b>   UT Austin Biomedical Outreach and Leadership Team
RLM 5.118 & Plaza	<b>Tinyhouse Design Challenge</b>   HACKSTARZ
RLM 5.120	<b>The Adventure Tree</b>   UT Austin McCombs School of Business Master of Science Programs
RLM 5.122	<b>Binary Bracelets</b>   UT Austin Women in Computer Science
RLM 5.124	<b>Design, Create &amp; Build Bridges</b>   WTS Heart of Texas Chapter Transportation YOU
RLM 5.126	<b>Life-Size Operation and Medical Trivia</b>   UT Austin Biomedical Engineering Society
RLM 6.104	<b>What is in My Cellphone? TV? Tablet?....Semiconductor!</b>   <b>Women in Technology at Samsung</b>
RLM 6.112	<b>Personalized Plating: Electroplate Your Own Charm</b>   <b>Women's Professional Development Network within Applied Materials Austin</b>
RLM 7.104	<b>Austin in Virtual Reality</b>   City of Austin
RLM 7.112	<b>Jello-Fracking</b>   UT Austin Petroleum Grad Students Association, UT Austin Society of Petrophysicists & Well Log Analysts, UT Austin Women in Petroleum & Geosystems Engineering
RLM 7.114	<b>Twirling in the Breeze: Windmill Engineering</b>   <b>ExxonMobil</b> , UT Austin Pi Sigma Pi
RLM 7.116	<b>Cosmetic Engineering: Manufacturing Lip-gloss</b>   <b>BASF Corporation</b>
RLM 7.124	<b>Rocket Powered Ski Lift</b>   <b>Phillips 66</b> , UT Austin Women in Mechanical Engineering

## ALL GRADES

### EER BUILDING HOST: TEXAS INSTRUMENTS

EER Ground Floor	<b>Longhorn MakerStudio Tours and Open House</b>   UT Austin Longhorn Maker Studio
EER Ground Floor MakerStudio	<b>Print-A-Cookie</b>   UT Austin Graduate Engineering Council
EER Ground Floor Atrium	<b>Design It Yourself Arcade</b>   4-H CAPITAL
EER Ground Floor Atrium	<b>Disease Detectives</b>   UT Austin Texas Public Health
EER Ground Floor Atrium	<b>Driving Robots</b>   UT Austin IEEE Robotics and Automation Society
EER Ground Floor Atrium	<b>ElectroMagnetism: An Intro into the Wonderful World of Electricity and Magnets</b>   Team 7161 Hydra, Vandegrift High School
EER Ground Floor Atrium	<b>Girl Scouts CAN Drive Robots: Can You?</b>   Girl Scouts of Central Texas FRC #2881 Lady Cans
EER Ground Floor Atrium	<b>Static Void Robotics Demonstration</b>   Static Void Robotics, Vista Ridge High School
EER Ground Floor Atrium	<b>Viperbots 6209 Venom</b>   Viperbots 6209 Venom, Vandegrift High School
EER Ground Floor Atrium	<b>Write Your First Lines of Code</b>   Kiwi Compute
EER Ground Floor 0.702	<b>Puff Mobile</b>   UT Austin Society of Asian Scientists and Engineers
EER Ground Floor 0.706	<b>Project Illuminate</b>   UT Austin Computer Science Project Illuminate
EER Ground Floor 0.708	<b>Engineering for Fun</b>   UT Austin UTeach Outreach
EER Ground Floor 0.824	<b>Automation Station</b>   <b>Emerson</b>
EER 1.504	<b>ACCHaoS - Austin Community College Hands-on Science</b>   Austin Community College Hands on Science
EER 1.508	<b>Just Keep Motoring</b>   UT Austin Eta Kappa Nu Electrical Engineering Honor Society
EER 1.516	<b>LED Light Up Butterflies</b>   <b>IBM</b> , UT Austin Women in Electrical and Computer Engineering
EER 1.518	<b>Potato Clock!</b>   UT Austin Institute of Electrical and Electronic Engineers
EER 1.522, 1.524	<b>Rockin' Roller Coasters</b>   Girlstart
EER 1.528	<b>Virtual Reality Demonstrations through Games</b>   <b>AMD</b>
EER 1.814, 1.816, 1.818	<b>The Wheels are Turning</b>   <b>Texas Instruments</b>
EER 2nd Floor Entrance	<b>Everyday Science in Transportation</b>   Texas A&M Transportation Institute
EER 2nd Floor Entrance	<b>Power the World with Engineering</b>   UT Austin Institute of Electrical and Electronic Engineers Power and Energy Society
EER 2nd Floor Entrance	<b>Secrets in Skulls</b>   UT Austin Texas Memorial Museum
EER 3.640, 3.642	<b>What's the Big Deal about Nano?</b>   UT Austin Materials Research Science and Engineering Center, UT Austin Korgel Research Group
EER 3.646	<b>Nanotechnology and your Smart Phone</b>   UT Austin NASCENT Engineering Research Center

## ALL GRADES

RLM Plaza	<b>Boat Race Engineering Challenge</b>   Bullock Texas State History Museum
RLM Plaza	<b>Butterflies and the Ecosystem</b>   Lady Papillons International, Inc. (rain: EER Ground Floor Auditorium Foyer)
RLM Plaza	<b>Central Texas Discover Engineering Information Table</b>   Central Texas Discover Engineering (rain: RLM Ground Floor Hall)
RLM Plaza	<b>Discover Astronomy</b>   UT Austin Association of Women in Astronomy Research and Education (rain: EER Ground Floor Atrium)
RLM Plaza	<b>Glowing Dough Creatures</b>   For Engineering the Mind (rain: EER Ground Floor Auditorium Foyer)
RLM Plaza	<b>How Does a Telescope Work?</b>   Austin Astronomical Society (rain: EER Ground Floor Atrium)
RLM Plaza	<b>Liquid Nitrogen Ice Cream and Plasma Physics</b>   UT Austin Women in Physics
RLM Plaza	<b>Understanding Earth's Life History: Create Your Own Fossil</b>   UT Austin Geosciences Leadership Organization for Women
RLM Plaza	<b>Which Monkey Is it? Be a Primate Detective</b>   UT Austin Primate Molecular Ecology & Evolution Lab
EER East Lawn	<b>3, 2, 1 Liftoff!</b>   UT Austin Longhorn Rocketry Association (rain: EER Ground Floor Auditorium Foyer)
EER East Lawn	<b>Designing Astronaut Tools for Space Walks</b>   UT Austin Space Bevos Research Group (rain: EER 2nd Floor Entrance)
EER East Lawn	<b>Engineer Your Way Into Space: Design A Successful Thrust Structure!</b>   Texas NASA Space Grant Consortium (rain: EER 2.610)
EER East Lawn	<b>Google Expeditions (Virtual Reality)</b>   <b>Google Fiber</b> (rain: EER Ground Floor Atrium)
EER East Lawn	<b>Medieval Engineering: The Trebuchet</b>   UT Austin Tau Beta Pi Engineering Honor Society
EER East Lawn	<b>Super Straw Planes</b>   UT Austin American Institute of Aeronautics and Astronautics (rain: EER Ground Floor Atrium)
EER East Lawn	<b>WIALD about Aerospace: Straw Rockets</b>   UT Austin Women in Aerospace for Leadership and Development (rain: EER Ground Floor Auditorium Foyer)
EER West Entry	<b>Exploring Materials - Thin Films</b>   UT Austin INC Lab (rain: EER 2nd Floor Entrance)
EER West Entry	<b>Garden in a Glove and Water Cycle in a Bag</b>   UT Austin Engineers for a Sustainable World
EER West Entry	<b>Tasty Toothpick Tower Challenge</b>   UT Austin Society of Hispanic Professional Engineers
EER West Lawn	<b>Drone Zone</b>   Maker Faire Austin
EER West Lawn	<b>Chemical Engineering Demonstrations</b>   UT Austin Graduate Chemical Engineering Leadership Council (rain: EER Ground Floor Auditorium Lobby)
EER West Lawn	<b>Extreme Water Challenge: Super Absorbent Polymer</b>   <b>BASF Corporation</b> (rain: RLM Ground Floor Hall)

## "CREATING CHEMISTRY" STAGE presented by BASF Corporation

(rain: RLM Ground Floor 4.102)

12 PM ..... WELCOME with BASF Corporation

3 & 4 PM ..... UT AUSTIN FUN WITH CHEMISTRY · 30 minute shows

12:30 & 1:30 PM .... UT AUSTIN FROZEN CHEMISTRY · 30 minute shows

4:30 PM ..... GIRL DAY STEM FESTIVAL CLOSING with Texas Instruments

### DOWNLOAD THE GIRL DAY AT UT AUSTIN APP FOR MAPS, SCHEDULE & MORE

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- **INTRODUCE A GIRL TO ENGINEERING DAY**  
CPE, ETC, ECJ buildings - Presented by Halliburton
- **GIRL DAY STEM FESTIVAL**  
RLM, EER buildings - Presented by Texas Instruments
- I **INFORMATION TENT**  
maps, programs, surveys, bags, first aid, lost & found, lost kids
- T **T-SHIRT PICK-UP AND SALES**  
pre-ordered t-shirt pick-up, \$20 t-shirt sales, cash only, EER 2.850
- F **FOOD + DRINKS**
- **STAGE 1: FUTURE TECHNOLOGIES STAGE**  
Presented by BAE Systems (Rain: EER Ground Floor Atrium)
- **STAGE 2: CREATING CHEMISTRY STAGE**  
Presented by BASF Corporation (Rain: RLM Ground Floor 4.102)

### FREE PARKING

Parking is available at the following garages on campus:

**27TH STREET GARAGE (TSG)**  
109 W. 27th Street

**SPEEDWAY GARAGE (SWG)**  
105 E. 27th Street

**SAN ANTONIO GARAGE (SAG)**  
2420 San Antonio Street

**SAN JACINTO GARAGE (SJG)** - This garage is **not** free for Girl Day.  
2401 San Jacinto Boulevard



Many thanks to our generous Girl Day at UT Austin partners!

### LEAD PARTNERS

**INTRODUCE A GIRL TO ENGINEERING DAY**  
presented by  
**HALLIBURTON**

**GIRL DAY STEM FESTIVAL**  
presented by  
**TEXAS INSTRUMENTS**

### ROOM & ACTIVITY HOSTS

3M COMPANY  
AMD  
BASF CORPORATION  
CHEVRON  
CIRRUS LOGIC  
DELL TECHNOLOGIES  
EMERSON  
EXXONMOBIL  
FLUOR  
GOOGLE FIBER  
HALLIBURTON  
HOMEAWAY, AN EXPEDIA COMPANY  
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PHILLIPS 66  
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### CREATING CHEMISTRY STAGE



### BUILDING HOSTS



### FUTURE TECHNOLOGIES STAGE



### HALLIBURTON

