Beal Bank
2023 Awards Program

Beal Bank
Dallas Regional Science and Engineering Fair

DRSEF

SMU
March 29, 2023

Today, as we honor the accomplishments of all the extremely bright, talented students who months or even years ago started researching some basic questions about this great universe of ours, we also honor the process of discovery — this process we call science.

At Beal Bank, our strong commitment to science led us to begin sponsoring the Dallas Regional Science and Engineering Fair, first by funding prizes and trips, and now for over ten years as sole title sponsor. The foundation of this commitment is our belief that the next generation of scientists, with the proper nurturing and encouragement, will ultimately answer those many unanswered questions, and in doing so push the science and research envelope to the edge and beyond.

Young people are fueled by a free-thinking ability that enables them to see the world, and indeed, the universe, in terms of just two questions: Why? And why not? This year’s Science Fair participants have again shown that in all disciplines of science much work remains to be done. They have asked their questions and gone about the painstaking process of research and testing. In some cases, hypotheses were confirmed; in others, they were disproved. But in all cases the questions were worthwhile. Some students are so passionate about their research they are into their third, fourth, even fifth year of study on the same topic — showing that they will not rest at “good enough.” They want to discover the answers they feel certain are attainable.

As a Texas-owned, Dallas-based company, we could not be prouder of these young scientists from our very own region. To every participant who dared to go beyond the genius of previous generations, we congratulate you and wish you the best. We hope to see you next year, still asking those questions.

Sincerely,

Andrew Beal
Chairman of the Board, Beal Bank
Thank You to Our Fair Sponsors

**Beal Bank** is the title sponsor of the Beal Bank Dallas Regional Science and Engineering Fair. The bank is pleased to reward the work of these bright students through support of student prizes, the Awards Banquet, and the winners’ trip to the Regeneron International Science and Engineering Fair.

**Southern Methodist University** has sponsored the Dallas Regional Science and Engineering Fair since the Fair’s inception in 1957. Faculty and staff from the University have always played significant roles, and the awards banquet is traditionally held on the SMU campus.

Innovator:

Community Partners:
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About the Dallas Regional Science & Engineering Fair

Started in 1957, the Dallas Regional Science & Engineering Fair is a volunteer non-profit affiliated to the International Science & Engineering Fair (ISEF), the world’s largest pre-college science competition. Around 100 people volunteer their time to administer the fair. This year, over 500 students advanced to the Regional Fair in grades 6-12 from public, private and charter middle and high schools within the Texas Education Agency Region 10.

The 2023 DRSEF Steering Committee

Michael Adams  
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STEM Advocate  
President

SRC Chair

Jean Streepey  
Highland Park ISD

Adam Unlu  
Harmony Charter Schools

Evan Whitfield  
Coppell ISD
The 2023 Judging

This year, approximately 200 local scientists and engineers volunteered to judge at the Regional Fair. Judges assess students’ projects based on creative ability, scientific thought, engineering goals, skill, thoroughness, clarity, and other criteria.

Beal Bank Prizes
Student projects are judged over two rounds in different science categories in junior and senior divisions based on specific ISEF criteria. In the first round, judges interview all students, narrowing the selection of projects to be assessed next. In the second round, judges designate over 100 projects as the first-, second-, third- and, in large categories, fourth-place winners. These win a cash prize from Beal Bank and qualify for the Texas State Science & Engineering Fair.

Beal Bank Grand Prizes
A new set of expert judges interview the top projects in category and award grand prizes to the top eight projects at the Fair—two per division for both life and physical sciences. Beal Bank sponsors the trip for the senior-division winners and runners-up to compete in the Regeneron International Science and Engineering Fair.

Special Awards
Members of local and national organizations attend the Fair to judge projects which fit a specific area of interest to them, using their own criteria to determine winners. This year, students received over 70 special awards from many different organizations.
Beal Bank Grand Prize Junior

**Life Science**

**Ellie Chong - Grand Prize Winner**
Highland Park Middle School | Highland Park

*Development of a Portable Solar-Powered Cost-Efficient Sterilization Unit for Use in Developing Countries*

**Jessica Zhang - Grand Prize Runner Up**
Rice Middle School | Plano ISD

*Analyzing Super Absorbent Polymer (SAP) to soil mass ratios on plant properties to increase sorghum yields*

**Physical Science**

**Ana Spiride - Grand Prize Winner**
Rice Middle School | Plano ISD

*Palm Reading: A Novel Computer Vision Approach to Translating Sign Language*

**Veda Kumar & Emily Peikari - Grand Prize Runner Up**
Renner Middle School | Plano ISD

*Icy Insulation!*
Animal Sciences

**William Triplett** Beal Bank First Prize
Renner Middle School | Plano ISD

**Pryce Wallace** Beal Bank Second Prize
Blue Ridge Middle School | Blue Ridge ISD

**Autumn Smith** Beal Bank Third Prize
Wester Middle School | Frisco ISD

Behavioral & Social Sciences

**Taryn Thathiah** Beal Bank First Prize
Argument-Driven Inquiry, First Place
Murphy Middle School | Plano ISD

**Reese Beaudoin** Beal Bank Second Prize
Prince Of Peace Catholic School | Diocese Of Dallas

**Maverick Hollabaugh** Beal Bank Second Prize
Prince Of Peace Catholic School | Diocese Of Dallas

**Sebastian Zaballa** Beal Bank Second Prize
Prince Of Peace Catholic School | Diocese Of Dallas

**Hasset Tesfaye** Beal Bank Third Prize
Argument-Driven Inquiry, Second Place
Murphy Middle School | Plano ISD

**Wilson Geng**
The Cooper Institute, Exercise/Health/Nutrition, Third Place
Renner Middle School | Plano ISD
Biochemistry & Cellular and Molecular Biology

Raghav Gowda Beal Bank First Prize
American Statistical Association, ASA Award for Statistical Excellence
Lawler Middle School | Frisco ISD

Aadi Soni Beal Bank First Prize
American Statistical Association, ASA Award for Statistical Excellence
Lawler Middle School | Frisco ISD

Rayyan Yaqoob Beal Bank Second Prize
Good Tree Academy | Private

Sohan Patel Beal Bank Third Prize
Robinson Middle School | Plano ISD

Keshav Giridhar Beal Bank Fourth Prize
Schimelpfenig Middle School | Plano ISD

Alexis Ojiako
Pediatrics Young Scientist Award
Trinity Chapter of The Links, Incorporated, So SMAART Award
Harmony School Of Innovation Garland Middle School | Charter

Biomedical & Health Sciences

Emery LeBlanc Beal Bank First Prize
Schimelpfenig Middle School | Plano ISD

Samantha Skaggs Beal Bank First Prize
Schimelpfenig Middle School | Plano ISD

Jacelyn Crear Beal Bank Second Prize
Haggard Middle School | Plano ISD

Ishaan Khera Beal Bank Third Prize
Robinson Middle School | Plano ISD
Mayukha Bhandaru  Beal Bank Fourth Prize  
Vandeventer Middle School | Frisco ISD

Vaibhavi Kabra  Beal Bank Fourth Prize  
Vandeventer Middle School | Frisco ISD

Biomedical Engineering and Computational Biology & 
Bioinformatics

Ellie Chong  Grand Prize & Beal Bank First Prize  
Highland Park Middle School | Highland Park ISD

Arnav Modh  Beal Bank Second Prize  
Pediatrics Young Scientist Award  
Rice Middle School | Plano ISD

Krish Tadigotla  Beal Bank Third Prize  
The Cooper Institute, Exercise/Health/Nutrition, First Place  
Wester Middle School | Frisco ISD

Inchara Kere  Beal Bank Fourth Prize  
The Cooper Institute, Exercise/Health/Nutrition, Second Place  
Ereckson Middle School | Allen ISD

Lauren Blake  
WEAT/TAWWA, Third Place  
Robinson Middle School | Plano ISD

Chemistry

Amaar Khan  Beal Bank First Prize  
United States Air Force, Air Force Research Laboratory Award  
Radiant Stem Academy | Parochial

Marie Benson  Beal Bank Second Prize  
Haggard Middle School | Plano ISD
Satvik Kolathaya  Beal Bank Third Prize  
Coppell Middle School North | Coppell ISD

Eshan Mahimkar  Beal Bank Third Prize  
Coppell Middle School North | Coppell ISD

Camryn Kirksey  Beal Bank Fourth Prize  
Wilson Middle School | Plano ISD

Emma Pearson  
WEAT/TAWWA, Second Place  
Haggard Middle School | Plano ISD

Earth & Environmental Sciences

Violet Whittenburg  Beal Bank First Prize  
Renner Middle School | Plano ISD

Aditi Srivastava  Beal Bank Second Prize  
Association for Women Geoscientists (AWG), AWG Student Award for Geoscience Excellence  
Robinson Middle School | Plano ISD

Hailey Smith  Beal Bank Third Prize  
National Oceanic and Atmospheric Administration, Taking the Pulse of the Planet  
Curtis Middle School | Allen ISD

Riya Chhaya  Beal Bank Fourth Prize  
Schimelpfenig Middle School | Plano ISD

Mason Lien  
WEAT/TAWWA, First Place  
Murphy Middle School | Plano ISD

Embedded Systems

Ana Spiride  Grand Prize & Beal Bank First Prize  
Rice Middle School | Plano ISD
Shruti Paul Beal Bank Second Prize
Schimelpfenig Middle School | Plano ISD

Ashlee McFearin Beal Bank Third Prize (tie)
Directed Energy Professional Society, Second Place
Hendrick Middle School | Plano ISD

Archika Shukla Beal Bank Third Prize (tie)
The Lemelson Foundation, Lemelson Early Inventor Prize
Bowman Middle School | Plano ISD

Nadrah Ogunleye
Trinity Chapter of The Links, Incorporated, So SMAART Award
Radiant Stem Academy | Parochial

Energy: Sustainable Materials & Design

Charvi Vohra Beal Bank First Prize
Texas Instruments, Best Electronics or Computing Project
Coppell Middle School North | Coppell ISD

Hao Wei Beal Bank First Prize
Texas Instruments, Best Electronics or Computing Project
Coppell Middle School North | Coppell ISD

Arohi Joshi-Gadre Beal Bank Second Prize
Ereckson Middle School | Allen ISD

Akshaya Ankireddi Beal Bank Third Prize
Vandeventer Middle School | Frisco ISD

Om Joshi
National Space Society of North Texas, Space Exploration Scholarship, First Place
Vandeventer Middle School | Frisco ISD

Engineering Technology: Statics & Dynamics

Pranavi Chatrathi Beal Bank First Prize
Pioneer Heritage Middle School | Frisco ISD
**Sanjay Jaishankar** Beal Bank Second Prize  
Imagine International Academy | Charter

**Aarya Mani** Beal Bank Second Prize  
Imagine International Academy | Charter

**GautamEsvar Manikandan** Beal Bank Second Prize  
Imagine International Academy | Charter

**Rulan Janzen** Beal Bank Third Prize  
Otto Middle School | Plano ISD

**Artina Belivan** Beal Bank Fourth Prize  
Society of American Military Engineers (SAME), Best Engineering Project  
Directed Energy Professional Society, First Place  
Pediatrics Young Scientist Award  
Renner Middle School | Plano ISD

**Areesha Khan**  
State of Texas Chapter – Health Physics Society, STC-HPC Science Fair Excellence Award  
Brighter Horizons Middle School | Parochial

**Environmental Engineering**

**Hiruni Wansapura** Beal Bank First Prize  
United States Air Force, Air Force Research Laboratory Award  
Robinson Middle School | Plano ISD

**Nidhi Ajmera** Beal Bank Second Prize  
Otto Middle School | Plano ISD

**Anusha Sharma** Beal Bank Third Prize  
Hunt Middle School | Frisco ISD

**William Zhou** Beal Bank Fourth Prize  
Rice Middle School | Plano ISD
Annaly Nguyen
North Texas Chapter of the Texas Master Naturalist (NTMN)
Frankford Middle School | Plano ISD

Materials Science

Veda Kumar Grand Prize Runner Up & Beal Bank First Prize
Renner Middle School | Plano ISD

Emily Peikari Grand Prize Runner Up & Beal Bank First Prize
Renner Middle School | Plano ISD

Aika Saadiq Beal Bank Second Prize
Trinity Chapter of The Links, Incorporated, So SMAART Award
Wilson Middle School | Plano ISD

Austin Sunder Beal Bank Third Prize
Rice Middle School | Plano ISD

Floyd Russell
U.S. Metric Association, Best Use of SI Units
All Saints Catholic School | Parochial

Mathematics and Systems Software

Beckett Mattern Beal Bank First Prize
Haggard Middle School | Plano ISD

Sanjit Konda Beal Bank Second Prize
Schimelpfenig Middle School | Plano ISD

Neel Paravasthu Beal Bank Second Prize
Schimelpfenig Middle School | Plano ISD

Sahas Nuti Beal Bank Third Prize
Pioneer Heritage Middle School | Frisco ISD

Anumita Pandit Beal Bank Third Prize
Pioneer Heritage Middle School | Frisco ISD
Nicholas Teixeira Beal Bank Fourth Prize
Harmony School of Innovation Dallas Middle School | Charter

Aramide Ajayi
Pediatrics Young Scientist Award
Harmony School of Innovation Dallas Middle School | Charter

Microbiology

Advaita Piduri Beal Bank First Prize
Rice Middle School | Plano ISD

Chrishael Infante Beal Bank Second Prize
Schimelpfenig Middle School | Plano ISD

Michelle Zheng Beal Bank Second Prize
Schimelpfenig Middle School | Plano ISD

Sarah Batayneh Beal Bank Third Prize
Radiant Stem Academy | Parochial

Physics & Astronomy

Varnika Ravi Beal Bank First Prize
Directed Energy Professional Society, Third Place
Wester Middle School | Frisco ISD

Malak Farag Beal Bank Second Prize
National Space Society of North Texas, Space Exploration Scholarship, Second Place
Brighter Horizons Middle School | Parochial

Thomas Lynch Beal Bank Third Prize
Mount St. Michael School | Parochial

Masouda Khan Beal Bank Fourth Prize
Pioneer Heritage Middle School | Frisco ISD
Plant Sciences

**Jessica Zhang** Grand Prize Runner Up & Beal Bank First Prize
Rice Middle School | Plano ISD

**Vissa Venkat** Beal Bank Second Prize
United States Air Force, Air Force Research Laboratory Award
Coppell Middle School East | Coppell ISD

**Celeste Wenick** Beal Bank Third Prize
Frankford Middle School | Plano ISD

**Saadia Syed** Beal Bank Fourth Prize
Murphy Middle School | Plano ISD

Robotics & Intelligent Machines

**Kade Reich** Beal Bank First Prize
Texas Instruments, Best Electronics or Computing Project
Haggard Middle School | Plano ISD

**Hiba Taimoor** Beal Bank Second Prize
Islamic School Of Irving | Parochial

**Anushka Chattopadhyay** Beal Bank Third Prize
Lawler Middle School | Frisco ISD
Translation Medical Science

**Apoorva Gautham** Beal Bank First Prize  
Uplift North Hills Middle School | Charter

**Rebecca Jacob** Beal Bank Second Prize  
Pediatrics Young Scientist Award  
Wilson Middle School | Plano ISD

**Ishita Mokkapati** Beal Bank Third Prize  
Pediatrics Young Scientist Award  
Rice Middle School | Plano ISD
Beal Bank Grand Prize Senior

Life Science

**Alanna Polyak – Grand Prize Winner**
Plano West Senior High School, Plano ISD

*Investigating the Potentiality of an Alternative, Realistic Cure of Encephalomyelitis disseminata (Multiple Sclerosis) Using the Neoblasts From Dugesia tigrina (Planaria) on Lumbricus terrestris (Earthworms)*

**Rohan Jagarlamudi – Grand Prize Runner Up**
Alcuin High School, Private

*Personalized Probiotic to Prevent/Alleviate Diabetes and IBD*

Physical Science

**Shobhit Agarwal - Grand Prize Winner**
Reedy High School, Frisco ISD

*FISQ: A Few-Shot, Interpretable, and Self-Supervised Quantum Machine Learning Approach to Automated Real-Time Prediction across Domains*

**Meryl Zhang – Grand Prize Runner Up**
Clark High School, Plano ISD

CONGRATULATIONS DALLAS ISEF 2023 FINALISTS!

Sign up to volunteer at Regeneron ISEF and help us spread the word

Society for Science needs about 1,000 Judges, 500 Volunteers and almost 200 Interpreters

Society for Science is expecting almost 1,800 high school students from around the world who will travel to Dallas for the Regeneron International Science and Engineering Fair (ISEF) from May 13–19, to compete for nearly $6 million in awards. Sign up today to volunteer!

For questions, contact us at ISEFvolunteer@societyforscience.org
Congratulations to the DRSEF students who qualified for Regeneron ISEF 2023

Shobhit Agarwal  
Reedy High School | Frisco ISD

Otto Beall  
Plano East Senior High School | Plano ISD

Zehra Jaffery  
Plano West Senior High School | Plano ISD

Rohan Jagarlamudi  
Alcuin High School | Private

Ameya Kulkarni  
Coppell High School | Coppell ISD

Praneeth Muvva  
Coppell High School | Coppell ISD

Shivani Nathan  
Jasper High School | Plano ISD

Alanna Polyak  
Plano West Senior High School | Plano ISD

Andy Qin  
Plano West Senior High School | Plano ISD

Meryl Zhang  
Clark High School | Plano ISD
Animal Sciences

Alex Pan  Beal Bank First Prize
St. Mark's School Of Texas High School | Private

Vedha Almeti  Beal Bank Second Prize
Williams High School | Plano ISD

Gaby Miller  Beal Bank Second Prize
Williams High School | Plano ISD

Anas Al Adawi  Beal Bank Third Prize
Harmony School Of Innovation Dallas High School | Charter

Ali Mohammed  Beal Bank Third Prize
Harmony School Of Innovation Dallas High School | Charter

Behavioral & Social Sciences

Siri Peddinti  Beal Bank First Prize
American Psychological Association, Achievement in Research in Psychological Science
Argument-Driven Inquiry, First Place
Plano East Senior High School | Plano ISD

Helen Qin  Beal Bank Second Prize
Argument-Driven Inquiry, Second Place
Independence High School | Frisco ISD

Hannah Rauch  Beal Bank Third Prize
Rauch Homeschool | Homeschool

Biochemistry

Vishnu Vasudev  Beal Bank First Prize
Liberty High School | Frisco ISD

Manyaa Bhatia  Beal Bank Second Prize
Reedy High School | Frisco ISD
Pranav Gorty  Beal Bank Third Prize  
Plano East Senior High School  |  Plano ISD

Biomedical & Health Sciences

Shashank Gangaram  Beal Bank First Prize
Southwest Medical Foundation, Kathryn and Ashley H. Priddy Award
Plano East Senior High School  |  Plano ISD

Jason Xu  Beal Bank Second Prize
Plano West Senior High School  |  Plano ISD

Isha Agrawal  Beal Bank Third Prize
Jasper High School  |  Plano ISD

Arwa Ahmed  Beal Bank Fourth Prize
Southwest Medical Foundation, Kathryn and Ashley H. Priddy Award
Harmony School Of Innovation Dallas High School  |  Charter

Imad Ahmed  Beal Bank Fourth Prize
Southwest Medical Foundation, Kathryn and Ashley H. Priddy Award
Harmony School Of Innovation Dallas High School  |  Charter

Jordy Lopez  Beal Bank Fourth Prize
Harmony School Of Innovation Dallas High School  |  Charter

Biomedical Engineering

Evelyn Ding  Beal Bank First Prize
Jasper High School  |  Plano ISD

Anish Kalra  Beal Bank Second Prize
Coppell High School  |  Coppell ISD

Trishay Naman  Beal Bank Second Prize
Coppell High School  |  Coppell ISD

Dhroov Pathare  Beal Bank Second Prize
Coppell High School  |  Coppell ISD
**Varun Sridhar** Beal Bank Third Prize  
Texas Instruments, Best Electronics or Computing Project  
Plano East Senior High School | Plano ISD

**Pulkith Paruchuri** Beal Bank Fourth Prize  
Heritage High School | Frisco ISD

**Dev Arora**  
The Cooper Institute, Exercise/Health/Nutrition, Third Place  
Jasper High School | Plano ISD

**Siya Tripathi**  
Texas Instruments, Best Electronics or Computing Project  
Plano East Senior High School | Plano ISD

**Christian Yang**  
Dallas County Medical Society (DCMS Foundation), First Place  
Trinity Christian Academy High School | Private

**Cellular & Molecular Biology**

**Zehra Jaffery** Beal Bank First Prize  
Regeneron Biomedical Science Award, The 2023 Regeneron Biomedical Science Award  
Plano West Senior High School | Plano ISD

**Rashmiya Hasan** Beal Bank Second Prize  
Memorial High School | Frisco ISD

**Arjun Karthik** Beal Bank Second Prize  
Memorial High School | Frisco ISD

**Saketh Sadhanala** Beal Bank Third Prize  
Reedy High School | Frisco ISD
Chemistry

**Zaynab Abbas** Beal Bank First Prize  
Jasper High School | Plano ISD

**Yizhen Zhang** Beal Bank First Prize  
Jasper High School | Plano ISD

**Kevin Sun** Beal Bank Second Prize  
Plano West Senior High School | Plano ISD

**Otina Ahmed** Beal Bank Third Prize  
Islamic School Of Irving High School | Parochial

Computational Biology & Bioinformatics

**Ameya Kulkarni** Beal Bank First Prize  
Coppell High School | Coppell ISD

**Praneeth Muvva** Beal Bank First Prize  
Coppell High School | Coppell ISD

**Raghav Ramki** Beal Bank Second Prize  
Plano East Senior High School | Plano ISD

**Anikait Bharadwaj** Beal Bank Third Prize  
State of Texas Chapter – Health Physics Society, STC-HPS Science Fair Excellence Award  
Centennial High School | Frisco ISD
Earth & Environmental Sciences

Katherine Lee Beal Bank First Prize
DFW Chapter of Hazardous Materials Managers, Inc., First Place - Best Hazardous Materials Individual Project
WEAT/TAWWA, First Place
U.S. Stockholm Junior Water Prize, Award for Excellence in a Water-Related Project
Association for Women Geoscientists (AWG), AWG Student Award for Geoscience Excellence
NASA, Earth System Science Award
National Oceanic and Atmospheric Administration, Taking the Pulse of the Planet
Plano West Senior High School | Plano ISD

Rishika Porandla Beal Bank Second Prize
U.S. Stockholm Junior Water Prize, Award for Excellence in a Water-Related Project
U.S. Agency for International Development (USAID), Science Champion Award
Coppell High School | Coppell ISD

Swathi Parameshwar Beal Bank Third Prize
North Texas Chapter of the Texas Master Naturalist (NTMN), NTMN Senior Division
Terracon, Inc., Terracon Environmental Excellence Award, First Place
Plano East Senior High School | Plano ISD

Anika Mootha Beal Bank Fourth Prize
Terracon, Inc., Terracon Environmental Excellence Award, Third Place
Greenhill School | Private

Embedded Systems

Adil Husain Beal Bank First Prize
Directed Energy Professional Society, First Place
Plano West Senior High School | Plano ISD

Kaitlyn Fan Beal Bank Second Prize
Jasper High School | Plano ISD

Nakshatra Piduri Beal Bank Third Prize
Jasper High School | Plano ISD
Energy: Sustainable Materials & Design

**Otto Beall** Beal Bank First Prize  
Plano East Senior High School | Plano ISD

**Arya Gurumukhi** Beal Bank Second Prize  
U.S. Metric Association, Best Use of SI Units  
Plano East Senior High School | Plano ISD

**Anushka Sridhar** Beal Bank Third Prize  
Plano East Senior High School | Plano ISD

**Aneesh Mootha**  
Terracon, Inc., Terracon Engineering Excellence Award, Second Place  
Greenhill School | Private

**Ahyaan Syed**  
U.S. Metric Association, Best Use of SI Units  
Panther Creek High School | Frisco ISD

**Rochan Viswanadhapalli**  
U.S. Metric Association, Best Use of SI Units  
Panther Creek High School | Frisco ISD

**Habib Waqas**  
Terracon, Inc., Terracon Engineering Excellence Award, First Place  
Radiant Stem Academy | Parochial

Engineering Technology: Statics & Dynamics

**Amrutha Veeramaneni** Beal Bank First Prize  
Society of American Military Engineers (SAME), Best Engineering Project  
Plano East Senior High School | Plano ISD

**Sanabhi Gauraw** Beal Bank Second Prize  
Plano East Senior High School | Plano ISD
**Tiffany Chen** Beal Bank Third Prize (Tie)  
Plano Senior High School | Plano ISD

**Ravi Pitta** Beal Bank Third Prize (Tie)  
Plano Senior High School | Plano ISD

**Anthony Xu** Beal Bank Third Prize (Tie)  
McKinney Amateur Radio Club, Inc., First Place  
Allen High School | Allen ISD

**Shrey Joshi**  
The Mars Society - DFW Chapter, The Mars Society Curiosity Award  
Frisco High School | Frisco ISD

**Environmental Engineering**

**Madhalasa Iyer** Beal Bank First Prize  
Ricoh, Ricoh Sustainable Development Award  
Plano Senior High School | Plano ISD

**Jana Pulak** Beal Bank Second Prize  
U.S. Stockholm Junior Water Prize, Award for Excellence in a Water-Related Project  
WEAT/TAWWA, Second Place  
Richardson High School | Richardson ISD

**Shivi Shrivastava** Beal Bank Third Prize  
Clark High School | Plano ISD

**Anusri Chinni** Beal Bank Fourth Prize  
North Texas Association of Environmental Professionals, Environmental Excellence  
National Geographic, That's Geography! - Cultivating Empathy for the Earth Award  
Uplift North Hills High School | Charter

**Materials Science**

**Shivani Nathan** Beal Bank First Prize  
Jasper High School | Plano ISD
Shreya Halbe Beal Bank Second Prize
WEAT/TAWWA, Third Place
Plano West Senior High School | Plano ISD

Amitha Mandava Beal Bank Third Prize
Plano East Senior High School | Plano ISD

Aithreya Thoppay
Yale Science & Engineering Association, Inc, Most Outstanding 11th Grade Exhibit
Reedy High School | Frisco ISD

Mathematics

Meryl Zhang Grand Prize Runner Up & Beal Bank First Prize
American Statistical Association, ASA Award for Statistical Excellence
Clark High School | Plano ISD

Albert Jiang Beal Bank Second Prize
Plano West Senior High School | Plano ISD

Pranavanath Balamurali Beal Bank Third Prize
Terracon, Inc., Terracon Engineering Excellence Award, Third Place
Independence High School | Frisco ISD

Braden Lamb
National Space Society of North Texas, Space Exploration Scholarship, Third Place
Lamb Homeschool | Homeschool

Microbiology

Rohan Jagarlamudi Grand Prize Runner Up & Beal Bank First Prize
The Cooper Institute, Exercise/Health/Nutrition, First Place
Alcuin High School | Private

Shriya Bhat Beal Bank Second Prize
Plano East Senior High School | Plano ISD
Voshita Parvathaneni Beal Bank Third Prize
Uplift North Hills High School | Charter

Physics & Astronomy

Aditya Mishra Beal Bank First Prize
Plano East Senior High School | Plano ISD

Sarah Khan Beal Bank Second Prize
Islamic School Of Irving High School | Parochial

Rupsa Paul Beal Bank Third Prize
Lowery Freshmen Center | Allen ISD

Trisha Karthi Beal Bank Fourth Prize
Frisco High School | Frisco ISD

Ishan Vemireddy
Directed Energy Professional Society, Third Place
Plano West Senior High School | Plano ISD

Plant Sciences

Prisha Bhat Beal Bank First Prize
Society for in Vitro Biology, Outstanding Achievement in In Vitro Biology
Terracon, Inc., Terracon Environmental Excellence Award, Second Place
Plano East Senior High School | Plano ISD

Annabella Gupta Beal Bank Second Prize
Jasper High School | Plano ISD

Ishita Saran Beal Bank Third Prize
Coppell High School | Coppell ISD
Robotics & Intelligent Machines

**Shobhit Agarwal** Grand Prize & Beal Bank First Prize  
Reedy High School | Frisco ISD

**Dhroov Bharatia** Beal Bank Second Prize  
Vines High School | Plano ISD

**Ryan Xu** Beal Bank Third Prize  
Directed Energy Professional Society, Second Place  
Jasper High School | Plano ISD

**Victor Xu** Beal Bank Third Prize  
Directed Energy Professional Society, Second Place  
Jasper High School | Plano ISD

**Andrew Ye**  
Texas Instruments, Best Electronics or Computing Project  
St. Mark's School Of Texas High School | Private

Systems Software

**Andy Qin** Beal Bank First Prize  
Plano West Senior High School | Plano ISD

**Isabelle Hou** Beal Bank Second Prize  
Clark High School | Plano ISD

**Anika Doddamane** Beal Bank Third Prize  
Plano East Senior High School | Plano ISD

**Sarthak Dhawan** Beal Bank Fourth Prize  
Liberty High School | Frisco ISD

**Satvik Duddukuru** Beal Bank Fourth Prize  
Liberty High School | Frisco ISD
Translation Medical Science

**Alanna Polyak** Grand Prize & Beal Bank First Prize  
Dallas County Medical Society (DCMS Foundation), Second Place  
Southwest Medical Foundation, Thomas and Libby Mathai Scholarship for Women in STEM  
Plano West Senior High School | Plano ISD

**Vaishnavi Moturi** Beal Bank Second Prize  
Centennial High School | Frisco ISD

**Aaditya Dhar** Beal Bank Third Prize  
Plano West Senior High School | Plano ISD

**Jayanth Mokkapati**  
Southwest Medical Foundation, Kathryn and Ashley H. Priddy Award  
Plano West Senior High School | Plano ISD

**Nishi Soni**  
Southwest Medical Foundation, Kathryn and Ashley H. Priddy Award  
The Cooper Institute, Exercise/Health/Nutrition, Second Place  
Centennial High School | Frisco ISD
2023 Special Award Donors

Students receive additional recognition from the following organizations, who have provided over 70 Special Awards this year.

American Statistical Association
American Psychological Association
Argument-Driven Inquiry
Association for Women Geoscientists
Dallas-Fort Worth Chapter of HMM, Inc.
Dallas County Medical Society
Directed Energy Professional Society
Dr. Jeff McKinney
National Aeronautics and Space Administration
National Geographic
National Oceanic and Atmospheric Administration
National Space Society of North Texas
North Texas Association of Environmental Professionals
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Ricoh USA, Inc.
Society for In Vitro Biology
Society of American Military Engineers
Southwestern Medical Foundation, Kathryn & Ashley H. Priddy Award
Southwestern Medical Foundation, Thomas & Libby Mathai Scholarship for Women in STEM
State of Texas Chapter-Health Physics Society
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The Cooper Institute
The Lemelson Foundation
The Mars Society - DFW Chapter
Trinity Chapter of The Links, Incorporated
U.S. Air Force
U.S. Agency for International Development
U.S. Metric Association
Water Environment Association of Texas and American Water Work Association
Yale Science and Engineering Association
Congratulations, winners!

We celebrate big thinkers like you who ask why, how and what if. Your bold questions lead to creative solutions for our global community’s challenges now and in the future.

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2023 Teacher Awards

Each day, great science teachers guide, encourage, and motivate students. Teachers impress curiosity in their students, which enables growth and learning. Over 100 teachers entered their students in the Regional Fair.

The Science Fair Teacher Award Committee recognizes the top teachers in each division for their dedication and commitment to students. These top teachers were selected by the number, performance, and success rate of their students at the fair.

Southern Methodist University and the Dallas Regional Science and Engineering Fair are proud to honor these teachers.

Junior Division Teachers

Elizabeth Marshall
Highland Park Middle School | Highland Park ISD

Fathima Sulaiman
Radiant STEM Academy | Parochial

Senior Division Teachers

Holly Anderson
Coppell High School | Coppell ISD

Julie Baker
Plano East Senior High School | Plano ISD

Amanda Dunn
Plano East Senior High School | Plano ISD

Michele Poovey
Jasper High School | Plano ISD

Emily Sharma
Plano West Senior High School | Plano ISD
Inspiring the next generation through STEM education

Qorvo Cares is our commitment to cultivating good - goodwill, good connections and good fun – to build strong communities among Qorvo® employees and the world around us. A pillar of Qorvo Cares' engagement is our support for STEM education, inspiring the next generation of young people: our future employees and customers.
Beal Bank

is proud to salute all participants in the 66th Annual Dallas Regional Science and Engineering Fair.

At Beal Bank we strongly believe that the next generation of scientists will answer long-unanswered questions and produce unprecedented breakthroughs to benefit humankind. Through the Science Fair, we encourage all young scientists to learn to think for themselves, to develop and test their own ideas – and, most importantly, to keep asking questions.