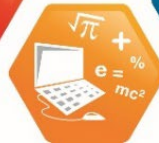


Beal Bank 2023 Awards Program

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,

A handwritten signature in black ink, appearing to read "Andy Beal". The signature is fluid and cursive, with a large initial "A" and "B".

Andrew Beal

Chairman of the Board, Beal Bank

Thank You to Our Supporters

Beal Bank

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.

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 Plano ISD Safety Co-Chair | Cynthia Curtis Dallas ISD | Fred Olness SMU |
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| Krishna Chetty Frisco ISD | Andrew Milburn Community Volunteer Treasurer | Evan Whitfield Coppell ISD |
| Beth Collins Frisco 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 Second Prize

Blue Ridge Middle School | Blue Ridge ISD

Autumn Smith Beal Bank Third Prize

Wester Middle School | Frisco ISD

Behavioral and 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 and 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 & Computational Biology & Bioinformatics

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

Arnuv 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 and 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 and 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 & 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 and 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 Mokkalapati Beal Bank Third Prize

Pediatrics Young Scientist Award

Rice Middle School | Plano ISD



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!**



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

The Easiest Hard Problem: A Heuristic Solution to the Two-Way Number Partitioning Problem Using Probabilistic Algorithms

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 and 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 & Cellular and Molecular Biology

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 and 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 and 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 and 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 and 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 and 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 and 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 and 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

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 Mokkaapati

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
American Radio Relay League: McKinney Amateur Radio Club, Inc.
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
North Texas Chapter of the Texas Master Naturalist
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
Stockholm Junior Water Prize
Terracon Consultants, Inc.
Texas Instruments
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 Works Association
Yale Science and Engineering Association

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

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.

Ready to do more?

Visit smu.edu/admission



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.

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**Dallas Regional Science
and Engineering Fair**

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