Beal Bank 2024 Awards Program

Beal Bank
Dallas Regional Science and Engineering Fair
DRSEF

SMU®

April 29, 2024

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 Partner:

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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 2024 DRSEF Steering Committee

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Coppell ISD

The 2024 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 60 special awards from many different organizations.

Beal Bank Grand Prize Junior

Life Science

Daniel Rutnam - Grand Prize Winner

Rice Middle School | Plano ISD

The Coyote - Coyote Vocalization Classifier to Avert Negative Human-Coyote Interactions

Chloe Ni - Grand Prize Runner Up

Rice Middle School | Plano ISD

Efficacy of Different Methods of Sun Protection

Physical Science

Iliana Lega - Grand Prize Winner

Travis Vanguard | Dallas ISD

Spectral properties of smartphone facial recognition

Pranavi Chatrathi - Grand Prize Runner Up

Pioneer Heritage Middle School | Frisco ISD

Side Impact Car Crash - An External Airbag SRS system focused on proactive deployment, energy dissipation to reduce injury severity

Animal Sciences

Daniel Rutnam Beal Bank First Prize
North Texas Chapter of the Texas Master Naturalist Junior Division
Rice Middle School | Plano ISD

Gavin Keith Beal Bank Second Prize
Renner Middle School | Plano ISD

William Triplett Beal Bank Second Prize
Renner Middle School | Plano ISD

Sagie Cohen Rotenberg Beal Bank Third Prize
Haggard Middle School | Plano ISD

Behavioral & Social Sciences

Ryleigh Diggs Beal Bank First Prize (tie)
Murphy Middle School | Plano ISD

Pranati Arni Beal Bank First Prize (tie)
Pioneer Heritage Middle School | Frisco ISD

Bhavna Devanand Beal Bank First Prize (tie)
Pioneer Heritage Middle School | Frisco ISD

Rishaan Raghavnath Beal Bank Second Prize
Lawler Middle School | Frisco ISD

Biochemistry & Cellular and Molecular Biology

Amogh Barath Beal Bank First Prize
Curtis Middle School | Allen ISD

Srisaiamaraditya Kona Beal Bank First Prize
Curtis Middle School | Allen ISD

Roshan Ranganathan Beal Bank First Prize
Curtis Middle School | Allen ISD

Annika Wong Beal Bank Second Prize
Otto Middle School | Plano ISD

Shreyas Kolan Beal Bank Third Prize
Rice Middle School | Plano ISD

Biomedical & Health Sciences

Chloe Ni Beal Bank First Prize
State of Texas Chapter – Health Physics Society STC-HPS Science Fair Excellence Award
Rice Middle School | Plano ISD

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

Aditi Bhaskar Beal Bank Third Prize
Lawler Middle School | Frisco ISD

Biomedical Engineering and Computational Biology & Bioinformatics

Akansh Karthik Beal Bank First Prize
The Lemelson Foundation Lemelson Early Inventor Prize
Rice Middle School | Plano ISD

Shruti Paul Beal Bank Second Prize
Schimelpfenig Middle School | Plano ISD

Masouda Khan Beal Bank Third Prize
Pioneer Heritage Middle School | Frisco ISD

Chemistry

Musa Elahi Beal Bank First Prize
Harmony School of Innovation Dallas Middle School | Charter

Sarah Elahi Beal Bank First Prize
Harmony School of Innovation Dallas Middle School | Charter

Yusuf Elahi Beal Bank First Prize
Harmony School of Innovation Dallas Middle School | Plano ISD

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

Sophia Whitney Beal Bank Third Prize
All Saints Catholic School | Diocese Of Dallas

Earth & Environmental Sciences

Nidhi Ajmera Beal Bank First Prize
National Oceanic and Atmospheric Administration Taking the Pulse of the Planet Individual Award
Otto Middle School | Plano ISD

Abhinav Agarwal Beal Bank Second Prize
WEAT / AWWA Junior Division, 1st Place
Pioneer Heritage Middle School | Frisco ISD

Saloni Khanna Beal Bank Second Prize
WEAT / AWWA Junior Division, 1st Place
Pioneer Heritage Middle School | Frisco ISD

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

Kashwi Budhwar Beal Bank Fourth Prize
Vandeventer Middle School | Frisco ISD

Hasini Kalidindi Beal Bank Fourth Prize
Vandeventer Middle School | Frisco ISD

Shivani Acharya
WEAT / AWWA Junior Division, 2nd Place
Lawler Middle School | Frisco ISD

Anvesha Nigam
WEAT / AWWA Junior Division, 2nd Place
Lawler Middle School | Frisco ISD

Saani Vyas
WEAT / AWWA Junior Division, 2nd Place
Lawler Middle School | Frisco ISD

Luisa Lopez
McKinney Amateur Radio Club, Inc. Junior Division, 1st Place
Uplift Ascend Middle School | Charter

Embedded Systems

Jason Pi Beal Bank First Prize
Texas Instruments Best electronics or computing project, Junior Division
Rice Middle School | Plano ISD

Aaron Castro Beal Bank Second Prize
Rice Middle School | Plano ISD

Elim Wong Beal Bank Third Prize
Schimelpfenig Middle School | Plano ISD

Energy: Sustainable Materials and Design

Ayush Singh Beal Bank First Prize
Coppell Middle East | Coppell ISD

Aarav Thilop Beal Bank First Prize
Coppell Middle East | Coppell ISD

Sushanth Velineni Beal Bank First Prize
Coppell Middle East | Coppell ISD

Aryan Sharma Beal Bank Second Prize
Lawler Middle School | Frisco ISD

Rohan Kartikeya Nakkina Beal Bank Third Prize
Vandeventer Middle School | Frisco ISD

Matthew Kuo Beal Bank Fourth Prize
Renner Middle School | Plano ISD

Ameerah Bello
Trinity Chapter of The Links, Incorporated So SMAART Award, 2nd Place
Harmony Science Academy Dallas | Charter

Engineering Technology: Statics and Dynamics

Pranavi Chatrathi Beal Bank First Prize
Directed Energy Professional Society Junior 2nd Place
Pioneer Heritage Middle School | Frisco ISD

Gautam Esvar Manikandan Beal Bank Second Prize
Society of American Military Engineers (SAME) Best Engineering Project
Imagine International Middle School | Charter

Oliver Esch Beal Bank Third Prize
Otto Middle School | Plano ISD

Pranav Thoppay
National Space Society of North Texas Space Exploration Scholarship 3rd Place
Pearson Middle School | Frisco ISD

Environmental Engineering

Hiruni Wansapura Beal Bank First Prize
Robinson Middle School | Plano ISD

Sathwik Gopu Beal Bank Second Prize
Lawler Middle School | Frisco ISD

Siddartha Kodithyala Beal Bank Second Prize
Lawler Middle School | Frisco ISD

Nuaym Zain Beal Bank Third Prize
Brighter Horizons Middle School | Parochial

Richa Rai Beal Bank Fourth Prize
Fowler Middle School | Frisco ISD

Taniya Tinnachardwanit Beal Bank Fourth Prize
Fowler Middle School | Frisco ISD

Sonarka Das
WEAT / AWWA Junior Division, 3rd Place
Uplift North Hills Preparatory Middle School | Charter

Materials Science

James Davis Beal Bank First Prize
Otto Middle School | Plano ISD

Akshaya Bollu Beal Bank Second Prize
Fowler Middle School | Frisco ISD

Anika Tiwari Beal Bank Second Prize
Fowler Middle School | Frisco ISD

Sahasra Valluripalli Beal Bank Third Prize
Fowler Middle School | Frisco ISD

Mathematics

Anumita Pandit Beal Bank First Prize
American Statistical Association ASA Award for Statistical Excellence - Junior Division
Pioneer Heritage Middle School | Frisco ISD

Aayush Dua Beal Bank Second Prize
Pioneer Heritage Middle School | Frisco ISD

Aarav Nirmal Beal Bank Second Prize
Pioneer Heritage Middle School | Frisco ISD

Ayush Sharma Beal Bank Second Prize
Pioneer Heritage Middle School | Frisco ISD

Pranav Singhal Beal Bank Third Prize
Pioneer Heritage Middle School | Frisco ISD

Microbiology

Abigail Siswanto Beal Bank First Prize
Rice Middle School | Plano ISD

Alma Zubi Beal Bank Second Prize
Harmony School of Innovation Dallas Middle School | Charter

Devansh Singh Beal Bank Third Prize
Pioneer Heritage Middle School | Frisco ISD

Physics and Astronomy

Iliana Lega Beal Bank First Prize
Directed Energy Professional Society Junior 1st Place
Travis Vanguard | Dallas ISD

Sabarish Saravanan Beal Bank Second Prize
Roach Middle School | Frisco ISD

Jumana Kasim Beal Bank Third Prize
Harmony School of Innovation Dallas Middle School | Charter

Katy Dearing Beal Bank Fourth Prize
Wilson Middle School | Plano ISD

Vidhi Desai
National Space Society of North Texas Space Exploration Scholarship 2nd Place
Hunt Middle School | Frisco ISD

Parthavi Peddina
National Space Society of North Texas Space Exploration Scholarship 2nd Place
Hunt Middle School | Frisco ISD

Plant Sciences

Harileen Kaur Beal Bank First Prize
Uplift North Hills Preparatory MS | Charter

Olivia Kim Beal Bank Second Prize
Ereckson Middle School | Allen ISD

Haojun Zhang Beal Bank Second Prize
Ereckson Middle School | Allen ISD

Ibaadullah Syed Beal Bank Third Prize
Brighter Horizons Middle School | Private

Ishfa Aalia Beal Bank Fourth Prize
Haggard Middle School | Plano ISD

Desire Akannimohammed
Trinity Chapter of The Links, Incorporated So SMAART Award, 1st Place
Murphy Middle School | Plano ISD

Leah Shelema
Trinity Chapter of The Links, Incorporated So SMAART Award, 3rd Place
Harmony School Of Innovation Garland Middle School | Charter

Robotics and Intelligent Machines

Hiba Taimoor Beal Bank First Prize
Texas Instruments Best electronics or computing project, Junior Division
Islamic School of Irving Middle School | Private

Tejas Parashar Beal Bank Second Prize
Texas Instruments Best electronics or computing project, Junior Division
Rice Middle School | Plano ISD

Shotaro Takagi Beal Bank Third Prize
Rice Middle School | Plano ISD

Dan Xie Beal Bank Third Prize
Rice Middle School | Plano ISD

Systems Software

Krishiv Lamba Beal Bank First Prize
Uplift North Hills Preparatory MS | Charter

Abhay Harika Beal Bank Second Prize
Directed Energy Professional Society Junior 3rd Place
Vandeventer Middle School | Frisco ISD

Prahas Kumar Beal Bank Second Prize
Directed Energy Professional Society Junior 3rd Place
Vandeventer Middle School | Frisco ISD

Adhiti Murthy Beal Bank Third Prize
Robinson Middle School | Plano ISD

Translational Medical Science

Apoorva Gautham Beal Bank First Prize
Uplift North Hills Preparatory MS | Charter

Jonathan Shen Beal Bank Second Prize
Pearson Middle School | Frisco ISD

Anjani Chebrolu Beal Bank Third Prize
Nelson Middle School | Frisco ISD

Beal Bank Grand Prize Senior

Life Science

Katherine Lee – Grand Prize Winner

Plano West Senior High School, Plano ISD

Finding an Accessible, Environmentally Friendly Solution to Water Purification II

Vaani Chellamuthu – Grand Prize Runner Up

Plano East Senior High School, Plano ISD

Diagnosing Neurodegenerative Pathologies using Image-Recognition in CNN

Physical Science

Chloe Lee - Grand Prize Winner

Plano East Senior High School, Plano ISD

Chemical Modification of Acetaminophen (Tylenol®) to Decrease Liver Toxicity

Ryan Xu – Grand Prize Runner Up

Jasper High School, Plano ISD

GIVS: A Novel, Generative Artificial Intelligence Vision System for the Visually Impaired

Congratulations to the DRSEF students who qualified for Regeneron ISEF 2024

Keshav Anand
Plano East Senior High School | Plano ISD

Viren Bankapur
Independence High School| Frisco ISD

Vaani Chellamuthu
Plano East Senior High School | Plano ISD

Arya Gurumukhi
Plano East Senior High School | Plano ISD

Zehra Jaffery
Plano West Senior High School | Plano ISD

Chloe Lee
Plano East Senior High School | Plano ISD

Katherine Lee
Plano West Senior High School | Plano ISD

Nishi Soni
Centennial High School | Frisco ISD

Ryan Xu
Jasper High School | Plano ISD

Behavioral and Social Sciences

Santosh Patapati Beal Bank First Prize
American Psychological Association Achievement in Research in Psychological Science
Panther Creek High School | Frisco ISD

Evelyn Ding Beal Bank Second Prize
Southwestern Medical Foundation Kathryn and Ashley H. Priddy Award
Plano West Senior High School | Plano ISD

Siri Peddinti Beal Bank Third Prize
Plano East Senior High School | Plano ISD

Ryana Velani
Southwestern Medical Foundation Kathryn and Ashley H. Priddy Award
Reedy High School | Frisco ISD

Biochemistry

Shivani Nathan Beal Bank First Prize
Plano West Senior High School | Plano ISD

Yazed Chavez Beal Bank Second Prize
Harmony Science Academy Dallas | Charter

Madai Marquez Hernandez Beal Bank Second Prize
Harmony Science Academy Dallas | Charter

Hedayah Hafid Beal Bank Third Prize
Harmony School of Innovation Garland High School | Charter

Hatice Karaca Beal Bank Third Prize
Harmony School of Innovation Garland High School | Charter

Jada Nelson Beal Bank Third Prize
Harmony School of Innovation Garland High School | Charter

Biomedical and Health Sciences

Artina Belivan Beal Bank First Prize
Shepton High School | Plano ISD

Krish Tadigotla Beal Bank Second Prize
Centennial High School | Frisco ISD

Chikasi Nwachukwu Beal Bank Third Prize
Harmony School of Innovation Garland High School | Charter

Mihir Dharmadhikari
Dallas County Medical Society 2nd Place
Coppell High School | Coppell ISD

Deepali Kanchanavally
Dallas County Medical Society 2nd Place
Coppell High School | Coppell ISD

Kartik Koranne
Dallas County Medical Society 2nd Place
Coppell High School | Coppell ISD

Manshi Swain
Southwestern Medical Foundation Kathryn and Ashley H. Priddy Award
Wakeland High School | Frisco ISD

Biomedical Engineering

Ellie Chong Beal Bank First Prize
Highland Park High School | Highland Park ISD

Sravya Pilla Beal Bank Second Prize
Jasper High School | Plano ISD

Adrian Lin Beal Bank Third Prize
Allen High School | Allen ISD

Ashwika Ala
Dallas County Medical Society 1st Place
Centennial High School | Frisco ISD

Sanjana Rajaram
Dallas County Medical Society 1st Place
Centennial High School | Frisco ISD

Trishay Naman
McKinney Amateur Radio Club, Inc. Senior Division, 1st Place
Coppell High School | Coppell ISD

Anish Kalra
McKinney Amateur Radio Club, Inc. Senior Division, 1st Place
Coppell High School | Coppell ISD

Ananya Javali
State of Texas Chapter – Health Physics Society STC-HPS Science Fair Excellence Award
Plano East Senior High School | Plano ISD

Cellular and Molecular Biology

Zehra Jaffery Beal Bank First Prize
Regeneron and the Society for Science Regeneron Biomedical Science Award
Plano West Senior High School | Plano ISD

Manya Gummaraju Beal Bank Second Prize
Plano East Senior High School | Plano ISD

Rashmiya Hasan Beal Bank Third Prize
Memorial High School | Frisco ISD

Arjun Karthik Beal Bank Third Prize
Memorial High School | Frisco ISD

Ashoke Yogaratnam Beal Bank Third Prize
Memorial High School | Frisco ISD

Jacqueline Nunez Martinez
Southwestern Medical Foundation Thomas and Libby Mathai Scholarship for Women in STEM
Harmony Science Academy Dallas | Charter

Chemistry

Chloe Lee Beal Bank First Prize
Plano East Senior High School | Plano ISD

Akshay Bhaskar Beal Bank Second Prize
Plano West Senior High School | Plano ISD

Jerusha Abraham Beal Bank Third Prize
Plano West Senior High School | Plano ISD

Raina Hasan Beal Bank Third Prize
Plano West Senior High School | Plano ISD

Computational Biology and Bioinformatics

Vaani Chellamuthu Beal Bank First Prize
Plano East Senior High School | Plano ISD

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

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

Dhakshata Sathyamurthy
Southwestern Medical Foundation Kathryn and Ashley H. Priddy Award
Centennial High School | Frisco ISD

Sanjay Sundaram
Southwestern Medical Foundation Kathryn and Ashley H. Priddy Award
R.L. Turner High School | Carrollton-Farmers Branch ISD

William Xie
Southwestern Medical Foundation Kathryn and Ashley H. Priddy Award
Plano West Senior High School | Plano ISD

Earth and Environmental Science

Katherine Lee Beal Bank First Prize
DFW Chapter of the Alliance Hazardous Materials Managers 1st Place Senior Division - Best Hazardous Materials Individual Project
NASA Earth System Science Award
Association for Women Geoscientists (AWG) AWG Student Award for Geoscience Excellence
Plano West Senior High School | Plano ISD

Chad Martin Beal Bank Second Prize
North Texas Chapter of the Texas Master Naturalist (NTMN) NTMN Senior Division
Terracon, Inc. Terracon Environmental Excellence Award, Senior Div. 3rd Place
U.S. Agency for International Development (USAID) Science Champion Award
Plano Academy High School | Plano ISD

Vihaan Dhanapalaksha Beal Bank Third Prize
Coppell High School | Coppell ISD

Aarav Munjal Beal Bank Third Prize
Coppell High School | Coppell ISD

Lakhisha Balaji
WEAT / AWWA Senior Division, 1st Place
Uplift North Hills Preparatory HS | Charter

Tanaya Apte
WEAT / AWWA Senior Division, 2nd Place
Coppell High School | Coppell ISD

Isabelle Hou
Terracon, Inc. Terracon Environmental Excellence Award, Senior Div. 1st Place
Clark High School | Plano ISD

Embedded Systems

Ryan Xu Beal Bank First Prize
U.S. Air Force Certificate of Achievement
Texas Instruments Best electronics or computing project, Senior Division
Jasper High School | Plano ISD

Trisha Desai Beal Bank Second Prize
Jasper High School | Plano ISD

Andrew Ye Beal Bank Third Prize
St. Mark's School of Texas | Private

Anushka Sridhar
Texas Instruments Best electronics or computing project, Senior Division
Plano East Senior High School | Plano ISD

Victor Xu
Texas Instruments Best electronics or computing project, Senior Division
Jasper High School | Plano ISD

Energy: Sustainable Materials and Design

Arya Gurumukhi Beal Bank First Prize
Directed Energy Professional Society Senior 1st Place
Terracon, Inc. Terracon Engineering Excellence Award, Senior Div. 3rd Place
U.S. Air Force Certificate of Achievement
Plano East Senior High School | Plano ISD

Krishn Virani Beal Bank Second Prize
Terracon, Inc. Terracon Engineering Excellence Award, Senior Div. 1st Place
Plano East Senior High School | Plano ISD

Charvi Vohra Beal Bank Third Prize
Coppell High School | Coppell ISD

Engineering Technology: Statics and Dynamics

Keshav Anand Beal Bank First Prize
U.S. Metric Association Best Use of SI Units
U.S. Air Force Certificate of Achievement
Plano East Senior High School | Plano ISD

Madeline Lopez Beal Bank Second Prize
Vines High School | Plano ISD

William Zhou Beal Bank Third Prize
Jasper High School | Plano ISD

Jacob Castro
Society of American Military Engineers (SAME) Best Engineering Project
Plano Academy High School | Plano ISD

Joseph Goh
Society of American Military Engineers (SAME) Best Engineering Project
Plano Academy High School | Plano ISD

Nawal Siddiqui
Society of American Military Engineers (SAME) Best Engineering Project
Plano Academy High School | Plano ISD

Environmental Engineering

Aneesh Mootha Beal Bank First Prize
North Texas Association of Environmental Professionals Environmental Excellence
Terracon, Inc. Terracon Environmental Excellence Award, Senior Div. 2nd Place
Greenhill School | Private

Anika Mootha Beal Bank First Prize
North Texas Association of Environmental Professionals Environmental Excellence
Terracon, Inc. Terracon Environmental Excellence Award, Senior Div. 2nd Place
Greenhill School | Private

Anusri Chinni Beal Bank Second Prize
WEAT / AWWA Senior Division, 3rd Place
Ricoh USA, Inc Ricoh Sustainable Development Award
Uplift North Hills Preparatory HS | Charter

Piyush Budagavi Beal Bank Third Prize
Plano West Senior High School | Plano ISD

Micah Alter-Meeker
National Space Society of North Texas Space Exploration Scholarship 1st Place
Plano Academy High School | Plano ISD

Matthew Huang
National Space Society of North Texas Space Exploration Scholarship 1st Place
Plano Academy High School | Plano ISD

Jacob Phan
National Space Society of North Texas Space Exploration Scholarship 1st Place
Plano Academy High School | Plano ISD

Materials Science

Shreya Halbe Beal Bank First Prize
Plano West Senior High School | Plano ISD

Aika Saadiq Beal Bank Second Prize
Vines High School | Plano ISD

Graeham Cheshkov-Drandov Beal Bank Third Prize
Shepton High School | Plano ISD

Neo Cheshkov-Drandov Beal Bank Third Prize
Shepton High School | Plano ISD

Mathematics

Meryl Zhang Beal Bank First Prize
Plano Senior High School | Plano ISD

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

Pranavanath Balamurali Beal Bank Third Prize
Independence High School | Frisco ISD

Adit Khandelwal Beal Bank Third Prize
Independence High School | Frisco ISD

Armaan Sharma Beal Bank Third Prize
Independence High School| Frisco ISD

Vivian Pang
American Statistical Association ASA Award for Statistical Excellence - Senior Division
Clark High School | Plano ISD

Microbiology

Zaynab Abbas Beal Bank First Prize
Plano West Senior High School | Plano ISD

Yizhen Zhang Beal Bank First Prize
Plano West Senior High School | Plano ISD

Elgin Tawiah Beal Bank Second Prize
Plano East Senior High School | Plano ISD

Vijay Shivnani Beal Bank Third Prize
Shepton High School | Plano ISD

Physics and Astronomy

Sanjith Chandran Beal Bank First Prize
Reedy High School | Frisco ISD

Rohan Kumar Beal Bank First Prize
Reedy High School | Frisco ISD

Aarini Sen Beal Bank Second Prize
Jasper High School | Plano ISD

Neel Marripalapu Beal Bank Third Prize
Jasper High School | Plano ISD

Amitha Mandava
Directed Energy Professional Society Senior 2nd Place
Plano East Senior High School | Plano ISD

Hawking Newcomer
U.S. Metric Association Best Use of SI Units
Clark High School | Plano ISD

Ananya Srivatsan
U.S. Metric Association Best Use of SI Units
Plano East Senior High School | Plano ISD

Plant Sciences

Prisha Bhat Beal Bank First Prize
Society for in Vitro Biology Outstanding Achievement in In Vitro Biology
Plano East Senior High School | Plano ISD

Jessica Zhang Beal Bank Second Prize
Jasper High School | Plano ISD

Arundhati Vankayalapati Beal Bank Third Prize
Plano East Senior High School | Plano ISD

Robotics and Intelligent Machines

Anirudh Narayanan Beal Bank First Prize
Directed Energy Professional Society Senior 3rd Place
Plano East Senior High School | Plano ISD

Kirubel Atsmegiorgis Beal Bank Second Prize
Harmony School of Innovation Garland High School | Charter

Talha Mohammed Beal Bank Second Prize
Harmony School of Innovation Garland High School | Charter

Allen Thomas Beal Bank Second Prize
Harmony School of Innovation Garland High School | Charter

Dev Arora Beal Bank Third Prize
Plano West Senior High School | Plano ISD

Anika Gopal
Terracon, Inc. Terracon Engineering Excellence Award, Senior Div. 2nd Place
The Learning Journey | Homeschool

Dhanush Bala
The Mars Society - DFW Chapter The Mars Society Curiosity Award
Shepton High School | Plano ISD

Ayush Biswal
Yale Science & Engineering Association, Inc. Most Outstanding 11th Grade Exhibit
Coppell High School | Coppell ISD

Aayush Shah
Yale Science & Engineering Association, Inc. Most Outstanding 11th Grade Exhibit
Coppell High School | Coppell ISD

Systems Software

Viren Bankapur Beal Bank First Prize
U.S. Air Force Certificate of Achievement
Independence High School | Frisco ISD

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

Smeeth Talasila Beal Bank Third Prize
Jasper High School | Plano ISD

Translational Medical Science

Nishi Soni Beal Bank First Prize
Centennial High School | Frisco ISD

Shashank Gangaram Beal Bank Second Prize
Plano East Senior High School | Plano ISD

Alanna Polyak Beal Bank Third Prize
Plano West Senior High School | Plano ISD

2024 Special Award Donors

Students receive additional recognition from the following organizations, who have provided over 60 Special Awards this year.

American Statistical Association
American Psychological Association
Association for Women Geoscientists
DFW Chapter of the Alliance Hazardous Materials Manager
Dallas County Medical Society
Directed Energy Professional Society
McKinney Amateur Radio Club, Inc.
National Aeronautics and Space Administration
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
Regeneron and the Society for Science
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
Terracon Consultants, Inc.
Texas Instruments
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

2024 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 teacher 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 Teacher

Sarah Baldwin
Pioneer Heritage Middle School | Frisco ISD

Senior Division Teacher

Julie Baker
Plano East 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?
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Inspiring the next generation through STEM education

QORVO® CARES

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.

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Beal Bank

is proud to salute all participants in the 67th 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
DRSEF