

Beal Bank 2022 Awards Program

Beal Bank
Dallas Regional Science
and Engineering Fair

DRSEF



March 31, 2022

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 that reads "Andy Beal". The signature is written in a cursive, flowing style.

Andrew Beal
Chairman of the Board, Beal Bank

Thank You to Our Fair 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 2022 DRSEF Steering Committee

Michael Adams
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Harmony Charter Schools

Evan Whitfield
Coppell ISD

The 2022 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

Charvi Vohra, Anika Upadhyayula & Anika Krishnamoorthy - Grand Prize Winner

Coppell Middle North, Coppell ISD

H2Dome: Air to Water Collection System

Ellie Chong- Grand Prize Runner Up

Highland Park Middle School, Highland Park ISD

*Novel In Vivo, Non-Invasive Method of Measuring Choroidal
Thickness, a Potentially Critical Factor in Determining Blood
Flow to the Retina and Blindness*

Physical Science

Jay Stahler- Grand Prize Winner

Frankford Middle School, Plano ISD

Where Can I Get the Best Gas for My Dirtbike?

Paige Elder & Kambree Garza- Grand Prize Runner Up

Blue Ridge Middle School, Blue Ridge ISD

What Brand of Popcorn Pops the Best?

Animal Sciences

Jordan Peters Beal Bank First Prize

Murphy Middle School | Plano ISD

Diya Govarthanan Beal Bank Second Prize

Stafford Middle School | Frisco ISD

Shubhavi Babu Beal Bank Second Prize

Stafford Middle School | Frisco ISD

Behavioral and Social Sciences

Jenani Sivamani Beal Bank First Prize

Coppell Middle North | Coppell ISD

Meenakshi Muresh Beal Bank First Prize

Coppell Middle North | Coppell ISD

Anvitha Aluri Beal Bank Second Prize

Pearson Middle School | Frisco ISD

Sahasra Batchu Beal Bank Second Prize

Pearson Middle School | Frisco ISD

Julie Fitzgerald Beal Bank Third Prize

Bowman Middle School | Plano ISD

Daniela Leon Beal Bank Third Prize

Bowman Middle School | Plano ISD

Biochemistry & Cellular and Molecular Biology

Sydney Vincer Beal Bank First Prize

Murphy Middle School | Plano ISD

Chrishael Infante Beal Bank Second Prize

Schimelpfenig Middle School | Plano ISD

Luciano Lopez Beal Bank Third Prize
School For The Talented & Gifted In Pleasant Grove | Dallas ISD

Sharika Mandyam Beal Bank Fourth Prize
Hockaday | Private

Biomedical and Health Sciences

Ellie Chong Grand Prize Runner Up & Beal Bank First Prize
The Cooper Institute Exercise/Health/Nutrition, 2nd Place
Highland Park Middle School | Highland Park ISD

Nikila Swaminathan Beal Bank Second Prize
Ereckson Middle School | Allen ISD

Meghana Renukprasad Beal Bank Third Prize
Rice Middle School | Plano ISD

Clara Phillips Beal Bank Fourth Prize
Robinson Middle School | Plano ISD

Aarav Munjal
The Cooper Institute Exercise/Health/Nutrition, 1st Place
Coppell Middle North | Coppell ISD

Arhan Dwadashshreni
The Cooper Institute Exercise/Health/Nutrition, 3rd Place
Lawler Middle School | Frisco ISD

Biomedical Engineering & Computational Biology & Bioinformatics

Harini Venkatesh Beal Bank First Prize
Rice Middle School | Plano ISD

Dhruvesh Ravishankar Beal Bank Second Prize
Coppell Middle North | Coppell ISD

Shriya Viswanathan Beal Bank Third Prize
Renner Middle School | Plano ISD

Saura Agarwal Beal Bank Third Prize
Renner Middle School | Plano ISD

Juhi Naeema Beal Bank Fourth Prize
Good Tree Academy, Ms | Private

Chemistry

Jay Stahler Grand Prize & Beal Bank First Prize
Frankford Middle School | Plano ISD

Emma Pearson Beal Bank Second Prize
Haggard Middle School | Plano ISD

Jenah Ramji Beal Bank Third Prize
Hunt Middle School | Frisco ISD

Andrew Causin Beal Bank Fourth Prize
Wilson Middle School | Plano ISD

Sashidhar Bhetanabotla
WEAT / TAWWA, 3rd Place
Curtis Middle School | Allen ISD

Earth and Environmental Sciences

Jessica Zhang Beal Bank First Prize
North Texas Chapter of the Texas Master Naturalist | National Oceanic and
Atmospheric Administration
Rice Middle School | Plano ISD

Charvi Neelegowda Beal Bank Second Prize

Rice Middle School | Plano ISD

Hyeonmin Cho Beal Bank Third Prize

WEAT / TAWWA 2nd Place

Wester Middle School | Frisco ISD

Emily Peikari Beal Bank Fourth Prize

Renner Middle School | Plano ISD

Veda Kumar Beal Bank Fourth Prize

Renner Middle School | Plano ISD

Mariana Brenes

Association for Women Geoscientists Student Award for Geoscience Excellence

All Saints Catholic | Parochial

Swathi Parameshwar

WEAT / TAWWA 1st Place

Murphy Middle School | Plano ISD

Embedded Systems

Ana Spiride Beal Bank First Prize

The Lemelson Foundation Early Inventor Prize | Collins Leadership Association

Outstanding Communications Project 1st Place

Rice Middle School | Plano ISD

Suhana Arora Beal Bank Second Prize

Hunt Middle School | Frisco ISD

Trisha Desai Beal Bank Third Prize

McKinney Amateur Radio Club, Inc. 1st Place

Robinson Middle School | Plano ISD

Energy: Sustainable Materials and Design

Arya Gurumukhi Beal Bank First Prize

Otto Middle School | Plano ISD

Rayyan Yaqoob Beal Bank Second Prize

Brighter Horizons Ms | Parochial

Aditi Srivastava Beal Bank Third Prize

Robinson Middle School | Plano ISD

Engineering Technology: Statics & Dynamics

Ishveer Randhawa Beal Bank First Prize

Murphy Middle School | Plano ISD

GautamEsva Manikandan Beal Bank Second Prize

Imagine International | Charter

Sanjay Jaishankar Beal Bank Second Prize

Imagine International | Charter

Aarya Mani Beal Bank Second Prize

Imagine International | Charter

Cooper Cornell Beal Bank Third Prize

Society of American Military Engineers Best Engineering Project

Murphy Middle School | Plano ISD

Anusha Nigam Beal Bank Fourth Prize

Lawler Middle School | Frisco ISD

Environmental Engineering

Charvi Vohra Grand Prize & Beal Bank First Prize

Coppell Middle North | Coppell ISD

Anika Upadhyayula Grand Prize & Beal Bank First Prize
Coppell Middle North | Coppell ISD

Anika Krishnamoorthy Grand Prize & Beal Bank First Prize
Coppell Middle North | Coppell ISD

Archika Shukla Beal Bank Second Prize
Bowman Middle School | Plano ISD

Nicole Dsilva Beal Bank Third Prize
Vandeventer Middle School | Frisco ISD

Thrayi Thimmancherla Beal Bank Third Prize
Vandeventer Middle School | Frisco ISD

Leon Cox Beal Bank Fourth Prize
Hendrick Middle School | Plano ISD

Materials Science

Abhinav Civi Beal Bank First Prize
Rice Middle School | Plano ISD

Aika Saadiq Beal Bank Second Prize
Wilson Middle School | Plano ISD

Craig Benson Beal Bank Third Prize
Haggard Middle School | Plano ISD

Kelly Harr Beal Bank Fourth Prize
Murphy Middle School | Plano ISD

Mathematics & Systems Software

Vanessa Rayo Beal Bank First Prize
Carpenter Middle School | Plano ISD

Anika Gopal Beal Bank Second Prize
Renner Middle School | Plano ISD

Sienna Smith Beal Bank Third Prize
Wester Middle School | Frisco ISD

Athreya Chokhani Beal Bank Fourth Prize
Murphy Middle School | Plano ISD

Microbiology

Bailey Pendleton Beal Bank First Prize
Carpenter Middle School | Plano ISD

Sophia Schiffman Beal Bank First Prize
Carpenter Middle School | Plano ISD

Faith Hyland Beal Bank Second Prize
Frankford Middle School | Plano ISD

Farrah Zein Beal Bank Third Prize
Wilson Middle School | Plano ISD

Physics and Astronomy

Paige Elder Grand Prize Runner Up & Beal Bank First Prize
Blue Ridge Middle School | Blue Ridge ISD

Kambree Garza Grand Prize Runner Up & Beal Bank First Prize
Blue Ridge Middle School | Blue Ridge ISD

Bryan Tran Beal Bank Second Prize
Directed Energy Professional Society 2nd Place
Murphy Middle School | Plano ISD

Tejas Vanaparthi Beal Bank Third Prize
Uplift North Hills Ms | Charter

Neo Cheshkov-Drandov

Directed Energy Professional Society 1st Place
Renner Middle School | Plano ISD

Alexander Stegall

Directed Energy Professional Society 3rd Place
Harmony School Of Innovation, Dallas Ms | Charter

Om Joshi

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

Kairav Banerjee

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

Plant Sciences

Isabella Anderson Beal Bank First Prize

Frankford Middle School | Plano ISD

Hafsa Ahmed Beal Bank Second Prize

Qalam Collegiate Academy | Parochial

Rithika Alluri Beal Bank Third Prize

Lawler Middle School | Frisco ISD

Ameenah Memon Beal Bank Third Prize

Lawler Middle School | Frisco ISD

Sofyan Memon Beal Bank Third Prize

Lawler Middle School | Frisco ISD

Chloe Jones Beal Bank Fourth Prize

National Space Society of North Texas Space Exploration Scholarship 2nd Place
Frankford Middle School | Plano ISD

Robotics & Intelligent Machines

Dhroov Bharatia Beal Bank First Prize

Texas Instruments Best electronics or computing project | Collins Leadership Association Outstanding Communications Project 2nd Place
Wilson Middle School | Plano ISD

Isabelle Hou Beal Bank Second Prize

Texas Instruments Best electronics or computing project
Schimelpfenig Middle School | Plano ISD

Shreelakshya Reddi Beal Bank Third Prize

Lawler Middle School | Frisco ISD

Rahul Senthil Kumar Ketharidevi Beal Bank Fourth Prize

Vandevanter Middle School | Frisco ISD

Marion Wright

Texas Instruments Best electronics or computing project
Otto Middle School | Plano ISD

Marisa Galu

Texas Instruments Best electronics or computing project
Otto Middle School | Plano ISD

Shriya Nadagouda

Acoustical Society of America Outstanding Acoustic Project
Lawler Middle School | Frisco ISD

Aanya Naini

Acoustical Society of America Outstanding Acoustic Project
Lawler Middle School | Frisco ISD

Mahi Shah

Acoustical Society of America Outstanding Acoustic Project
Lawler Middle School | Frisco ISD

Translation Medical Science

Kaitlyn Fan Beal Bank First Prize

Collins Leadership Association Outstanding Communications Project 3rd Place

Rice Middle School | Plano ISD

Beal Bank Grand Prize Senior

Life Science

Rithvik Ganesh- Grand Prize Winner

Plano West Senior High School, Plano ISD

Tackling Tau: Experimental Characterization of Inhibitors of the MSUT-2 Protein for the Treatment of Neurodegenerative Diseases

Vivek Kogilathota - Grand Prize Runner Up

Reedy High School, Frisco ISD

iPonder: A Multimodal and Anonymous Approach to Remote Teen Mental Health Diagnosis and Peer-Based Conversational Therapy via Deep Transfer Learning and Computer Vision

Physical Science

Navya Ramakrishnan - Grand Prize Winner

Plano Senior High School, Plano ISD

A Home Automation System for Neuromuscular Disorder Patients using Brain Computer Interface

Sarang Goel- Grand Prize Runner Up

Coppell High School, Coppell ISD

Ivy: Intelligent Vision System Enabling Independent Mobility For The Visually Impaired

Congratulations to the DRSEF students who qualified for Regeneron ISEF 2022

Harshal Bharatia

Plano Senior High School | Plano ISD

Shriya Bhat

Plano East Senior High School | Plano ISD

Sreya Das

Liberty High School | Frisco ISD

Rithvik Ganesh

Plano West Senior High School | Plano ISD

Sarang Goel

Coppell High School | Coppell ISD

Zehra Jaffery

Jasper High School | Plano ISD

Vivek Kogilathota

Reedy High School | Frisco ISD

Navya Ramakrishnan

Plano Senior High School | Plano ISD

Meryl Zhang

Clark High School | Plano ISD

Animal Sciences

Henry Rutnam Beal Bank First Prize

Jasper High School | Plano ISD

Vyshnavi Poruri Beal Bank Second Prize

Plano East Senior High School | Plano ISD

Anika Mootha Beal Bank Third Prize

Greenhill School | Private

Behavioral and Social Sciences

Vivek Kogilathota Grand Prize Runner Up & Beal Bank First Prize

American Psychological Association Achievement in Research in Psychological Science

Reedy High School | Frisco ISD

Andy Qin Beal Bank Second Prize

Jasper High School | Plano ISD

Sidhya Peddinti Beal Bank Third Prize

Plano East Senior High School | Plano ISD

Mithun Mahesh Beal Bank Fourth Prize

Centennial High School | Frisco ISD

Biochemistry & Cellular and Molecular Biology

Zehra Jaffery Beal Bank First Prize

Jasper High School | Plano ISD

Manyaa Bhatia Beal Bank Second Prize

Reedy High School | Frisco ISD

Anjali Iyer Beal Bank Third Prize

Southwest Medical Foundation Thomas & Libby Mathai Scholarship for Women in STEM

Plano Senior High School | Plano ISD

Biomedical and Health Sciences

Meklit Demile Beal Bank First Prize

Lowery Freshmen Center | Allen ISD

Imad Ahmed Beal Bank Second Prize

Harmony School Of Innovation Dallas | Charter

Arwa Ahmed Beal Bank Second Prize

Harmony School Of Innovation Dallas | Charter

Jordy Lopez Beal Bank Second Prize

Harmony School Of Innovation Dallas | Charter

Shaarvi Vancha Beal Bank Third Prize

Jasper High School | Plano ISD

Jason Xu Beal Bank Fourth Prize

The Cooper Institute Exercise/Health/Nutrition 3rd Place

Plano West Senior High School | Plano ISD

Manshi Swain

U.S. Stockholm Junior Water Prize Award for Excellence in a Water-Related Project

Reedy High School | Frisco ISD

Michelle Yang

The Cooper Institute Exercise/Health/Nutrition 1st Place

Reedy High School | Frisco ISD

Catalina Zuo

The Cooper Institute Exercise/Health/Nutrition 1st Place

Reedy High School | Frisco ISD

Riona Scaria

The Cooper Institute Exercise/Health/Nutrition 2nd Place
Coppell High School | Coppell ISD

Alanna Polyak

Dallas County Medical Society Foundation First Prize
Jasper High School | Plano ISD

Raghav Ramki

Southwest Medical Foundation Kathryn and Ashley H. Priddy Award
Plano East Senior High School | Plano ISD

Biomedical Engineering

Siri Peddinti Beal Bank First Prize

Plano East Senior High School | Plano ISD

Emmanuel Tawiah Beal Bank Second Prize

Plano East Senior High School | Plano ISD

Elgin Tawiah Beal Bank Second Prize

Plano East Senior High School | Plano ISD

Rifa Gowani Beal Bank Third Prize

Jasper High School | Plano ISD

Chemistry

Kevin Sun Beal Bank First Prize

Plano West Senior High School | Plano ISD

Ahmed Adookkattil Beal Bank Second Prize

Islamic School Of Irving | Parochial

Shreyas Sailesh Beal Bank Third Prize

Plano East Senior High School | Plano ISD

Computational Biology and Bioinformatics

Rithvik Ganesh Grand Prize & Beal Bank First Prize

Plano West Senior High School | Plano ISD

Devika Sunil Beal Bank Second Prize

Plano Senior High School | Plano ISD

Aithreya Thoppay Beal Bank Third Prize

Reedy High School | Frisco ISD

Earth and Environmental Sciences

Sreya Das Beal Bank First Prize

NASA Earth System Science Award

Lone Star High School | Frisco ISD

Katherine Lee Beal Bank Second Prize

American Meteorology Society Outstanding Achievement in Atmospheric Science

Jasper High School | Plano ISD

Shreya Halbe Beal Bank Third Prize

Jasper High School | Plano ISD

Aneisha Gupta

Association for Women Geoscientists Student Award for Geoscience Excellence

Plano Senior High School | Plano ISD

Reva Kolhe

U.S. Metric Association Best Use of SI Units

Shepton High School | Plano ISD

Alexandra Jobe

U.S. Stockholm Junior Water Prize Award for Excellence in a Water-Related Project

Coppell High School | Coppell ISD

Jack Curtis

North Texas Chapter of the Texas Master Naturalist | WEAT / TAWWA 2nd Place
Bishop Lynch High | Parochial

Satvika Nadella

WEAT / TAWWA 1st Place | Terracon Environmental Excellence Award 3rd Place
Lowery Freshmen Center | Allen ISD

Ashley Morrison

WEAT / TAWWA 3rd Place
McMillen High School | Plano ISD

Diya Damodaran

WEAT / TAWWA 3rd Place
McMillen High School | Plano ISD

Embedded Systems

Sarang Goel Grand Prize Runner Up & Beal Bank First Prize

Texas Instruments Best electronics or computing project
Coppell High School | Coppell ISD

Sean Jannati Beal Bank Second Prize

Plano West Senior High School | Plano ISD

Junhwan Jung Beal Bank Second Prize

Plano West Senior High School | Plano ISD

Anushka Sridhar Beal Bank Third Prize

Plano East Senior High School | Plano ISD

Adil Husain

Texas Instruments Best electronics or computing project
Plano West Senior High School | Plano ISD

Sarah Khan

Texas Instruments Best electronics or computing project
Islamic School Of Irving | Parochial

Aaron Liu

Directed Energy Professional Society 2nd Place
St. Mark's School Of Texas | Private

Energy: Sustainable Materials and Design

Nimra Fatima Beal Bank First Prize

Iqa Quranic Senior | Parochial

Mukund Ramachandran Beal Bank Second Prize

Plano West Senior High School | Plano ISD

Nandini Ramachandran Beal Bank Second Prize

Plano West Senior High School | Plano ISD

Otto Beall Beal Bank Third Prize

Terracon Engineering Excellence Award 3rd Place
Plano East Senior High School | Plano ISD

Engineering Technology: Statics & Dynamics

Sanika Nandpure Beal Bank First Prize

Plano East Senior High School | Plano ISD

Shrey Joshi Beal Bank Second Prize

Frisco HS | Frisco ISD

Hassan Siddiqui Beal Bank Third Prize

Good Tree Academy | Private

Eyub Tosun Beal Bank Third Prize

Good Tree Academy | Private

Environmental Engineering

Jana Pulak Beal Bank First Prize

Ricoh Ricoh Sustainable Development Award | U.S. Agency for International Development Science Champion Award | National Geographic That's Geography! - Cultivating Empathy for the Earth Award
Richardson High School | Richardson ISD

Anusri Chinni Beal Bank Second Prize

American Meteorology Society Outstanding Achievement in Atmospheric Science
Uplift North Hills | Charter

Abhinav Malkoochi Beal Bank Third Prize

Plano West Senior High School | Plano ISD

Nehal Singh

U.S. Stockholm Junior Water Prize Award for Excellence in a Water-Related Project
Coppell High School | Coppell ISD

Aditya Mishra

Society of American Military Engineers Best Engineering Project | Terracon
Environmental Excellence Award 2nd Place
Plano East Senior High School | Plano ISD

Arya Karthik

North Texas Association of Environmental Professionals Environmental Excellence
Plano East Senior High School | Plano ISD

Harish Chandran

North Texas Association of Environmental Professionals Environmental Excellence
Plano East Senior High School | Plano ISD

Hrishikesh Harish

North Texas Association of Environmental Professionals Environmental Excellence
Plano East Senior High School | Plano ISD

Materials Science

Anshuman Das Beal Bank First Prize

ASM Materials Education Foundation Most Outstanding Exhibit in Materials Science
Coppell High School | Coppell ISD

Kevin Su Beal Bank Second Prize

The Mars Society - DFW Chapter Curiosity Award
Heritage High School | Frisco ISD

Shivani Nathan Beal Bank Third Prize

Jasper High School | Plano ISD

Mathematics

Meryl Zhang Beal Bank First Prize

Clark High School | Plano ISD

Ishaan Javali Beal Bank Second Prize

Plano East Senior High School | Plano ISD

Shrey Joshi Beal Bank Second Prize

Plano East Senior High School | Plano ISD

Ian Chen Beal Bank Third Prize

Plano West Senior High School | Plano ISD

Hardik Singh

MU Alpha Theta Award for Mathematics
Plano East Senior High School | Plano ISD

Dhanush Jain

MU Alpha Theta Award for Mathematics
Plano East Senior High School | Plano ISD

Microbiology

Shriya Bhat Beal Bank First Prize

Yale Science & Engineering Association, Inc Most Outstanding 11th Grade Exhibit
Plano East Senior High School | Plano ISD

Vy Nguyen Beal Bank Second Prize

Williams High School | Plano ISD

Tejas Bharadwaj Beal Bank Third Prize

Shepton High School | Plano ISD

Physics and Astronomy

Prisha Singh Beal Bank First Prize

Plano East Senior High School | Plano ISD

Ishan Vemireddy Beal Bank Second Prize

Jasper High School | Plano ISD

Mustafa Haque Beal Bank Third Prize

National Space Society of North Texas Space Exploration Scholarship 1st Place
Plano East Senior High School | Plano ISD

Hamza Haque Beal Bank Third Prize

National Space Society of North Texas Space Exploration Scholarship 1st Place
Plano East Senior High School | Plano ISD

Dhilan Nag

Directed Energy Professional Society 1st Place
Plano East Senior High School | Plano ISD

Aditya Panda

Directed Energy Professional Society 3rd Place
Plano West Senior High School | Plano ISD

Plant Sciences

Arundhati Vankayalapati Beal Bank First Prize

Plano East Senior High School | Plano ISD

Prisha Bhat Beal Bank Second Prize

DFW Chapter of Hazardous Materials Managers, Inc. 1st Place - Best Hazardous Materials Individual Project

Plano East Senior High School | Plano ISD

Hari Shankar Beal Bank Third Prize

Society for in Vitro Biology Outstanding Achievement in In Vitro Biology

Reedy High School | Frisco ISD

Andy Nguyen

Terracon Environmental Excellence Award 1st Place

McMillen High School | Plano ISD

Anthony Phan

Terracon Environmental Excellence Award 1st Place

McMillen High School | Plano ISD

Robotics and Intelligent Machines

Harshal Bharatia Beal Bank First Prize

Terracon Engineering Excellence Award 2nd Place

Plano Senior High School | Plano ISD

Shobhit Agarwal Beal Bank Second Prize

Reedy High School | Frisco ISD

Patrick Lu Beal Bank Third Prize

Plano West Senior High School | Plano ISD

Krishn Virani

Collins Leadership Association Outstanding Communications Project 3rd Place

McMillen High School | Plano ISD

Krishna Shah

McKinney Amateur Radio Club, Inc. 1st Place
Lowery Freshmen Center | Allen ISD

Isha Agrawal

Terracon Engineering Excellence Award 1st Place
Jasper High School | Plano ISD

Systems Software

Navya Ramakrishnan Grand Prize & Beal Bank First Prize

Collins Leadership Association Outstanding Communications Project 2nd Place
Plano Senior High School | Plano ISD

Meena Ramaswamy Beal Bank Second Prize

McMillen High School | Plano ISD

Clint Wang Beal Bank Third Prize

Plano East Senior High School | Plano ISD

Kamran Nag

Collins Leadership Association Outstanding Communications Project 1st Place
Plano East Senior High School | Plano ISD

Ron Asoulin-Handelman Beal Bank Fourth Prize

Yavneh Academy Of Dallas | Private

Translation Medical Science

Jayanth Mokkapati Beal Bank First Prize

Jasper High School | Plano ISD

Weixuan Yan Beal Bank Second Prize

Plano West Senior High School | Plano ISD

Anika Chebrolu Beal Bank Third Prize

Independence High School | Frisco ISD

Aditya Chebrolu Beal Bank Third Prize
Independence High School | Frisco ISD

Evelyn Ding
Dallas County Medical Society Foundation Second Prize
Jasper High School | Plano ISD

2022 Special Award Donors

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

Acoustical Society of America
American Meteorology Society
American Psychological Association
American Radio Relay League: McKinney Amateur Radio Club, Inc.
Association for Women Geoscientist
ASM Materials Education Foundation
Collins Leadership Association
Cooper Institute
Dallas County Medical Society
DFW Chapter of Hazardous Materials Managers, Inc.
Directed Energy Professional Society
Lemelson Foundation
Mars Society – DFW Chapter
Mu Alpha Theta
National Aeronautics & 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
Society for In Vitro Biology
Southwestern Medical Foundation, Kathryn & Ashley H. Priddy Award
Southwestern Medical Foundation, Thomas & Libby Mathai Scholarship for Women in STEM
Stockholm Junior Water Prize
Society of American Military Engineers
Terracon Consultants, Inc.
Texas Instruments
U.S. Agency for International Development
U.S. Metric Association
Water Environment Association of Texas & American Water Work Association
Yale Science & Engineering Association

2022 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 enter their students in the Regional Fair.

The Science Fair Teacher Award Committee is recognizing 3 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 DRSEF are proud to honor these teachers.

Junior Division Teachers

Jason Pearson

Lawler Middle School | Frisco ISD

Lisa Walsh

Coppell Middle School | Coppell ISD

Patricia Wilkins

Frankford Middle School | Plano ISD

Senior Division Teachers

Julie Baker

Plano East Senior High School | Plano ISD

Vashka Desai

Jasper High School | Plano ISD

Jerry Pruett

Plano West Senior High School | Plano ISD

Beal Bank

is proud to salute all participants in the
65th 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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