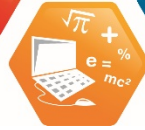


**Beal Bank**  
Dallas Regional Science  
and Engineering Fair

**DRSEF**



**2018**

**Student Awards**



## Beal Bank Grand Prize Winners

### Junior Division | Life Science

#### **Explore or Exploit?**

*Tanaz Muhamed*  
Otto Middle School, Plano ISD

#### **Shoe Vision**

*Shantikiran Chanal, Vivek Kogilathota*  
Pearson Middle School, Frisco ISD

### Junior Division | Physical Science

#### **SANDRA (Serve and Data Results Analysis) Athletic Tech Glove**

*Sophie Krajmalnik*  
Frankford Middle School, Plano ISD

#### **Intellitherm: So Cool, It's Hot**

*Harshal Bharatia*  
Wilson Middle School, Plano ISD

# STUDENT AWARDS – JUNIOR DIVISION

## LIFE SCIENCES

### ANIMAL SCIENCES & COMPUTATIONAL BIOLOGY AND BIOINFORMATICS

**RITHVIK GANESH**  
RICE MIDDLE SCHOOL  
PLANO ISD  
**Beal Bank First Prize**  
*Dallas County Veterinary Medical Association - Junior Division, First Place*

**ADITYA CHEBROLU**  
NELSON MIDDLE SCHOOL  
FRISCO ISD  
**Beal Bank Second Prize**

**ATHUL MOHANRAM**  
WESTER MIDDLE SCHOOL  
FRISCO ISD  
**Beal Bank Third Prize**

**KATHRYN MCELHENIE**  
JL LONG MIDDLE SCHOOL  
DALLAS ISD  
*Dallas County Veterinary Medical Association - Junior Division, Second Place*

### BEHAVIORAL & SOCIAL SCIENCES

**TANAZ MUHAMED**  
OTTO MIDDLE SCHOOL  
PLANO ISD  
**Beal Bank First Prize**  
**Beal Bank Grand Prize**

**SAMEEKSHA GUHA**  
VANDEVENTER MIDDLE SCHOOL  
FRISCO ISD  
**Beal Bank Second Prize**

**MALAK ASKAR**  
ISLAMIC SCHOOL OF IRVING MIDDLE SCHOOL  
PAROCHIAL  
**Beal Bank Third Prize**

**ADITHI RALLAPALLI**  
RENNER MIDDLE SCHOOL  
PLANO ISD  
**Beal Bank Fourth Prize**

**ELAINA SIMONSEN**  
FAUBION MIDDLE SCHOOL  
MCKINNEY ISD  
*American Meteorology Society - North Texas Chapter - Honorable Mention*

**NEIL GUPTA**  
MAUS MIDDLE SCHOOL  
FRISCO ISD  
*The Cooper Institute - Honorable Mention*

### BIOCHEMISTRY

**AARYA RAVISHANKAR**  
RE NNER MIDDLE SCHOOL  
PLANO ISD  
**Beal Bank First Prize**

**ARSHIA NARULA**  
FOWLERMIDDLE SCHOOL  
FRISCO ISD  
**Beal Bank Second Prize**

**ASMITASAMSON VADDESWARAPU**  
FOWLERMIDDLE SCHOOL  
FRISCO ISD  
**Beal Bank Third Prize**

### BIOMEDICAL & HEALTH SCIENCES

**HARINI KANAMARLAPUDI**  
ROBINSON MIDDLE SCHOOL  
PLANO ISD  
**Beal Bank First Prize**

**MERRICK INGRAHAM**  
ALEX SANGER PREPARATORY MIDDLE  
DALLAS ISD  
**Beal Bank Second Prize**

**SARANG GOEL**  
COPPELL MIDDLE EAST  
COPPELL ISD  
**Beal Bank Third Prize**

**JUSTIN RHO**  
RE NNER MIDDLE SCHOOL  
PLANO ISD  
**Beal Bank Fourth Prize**

**REVANTH KAJA**  
VANDEVENTER MIDDLE SCHOOL  
FRISCO ISD  
*National Space Society of North Texas - Space Exploration Scholarship 1st Place*  
*The Mars Society -DFW Chapter - Honorable Mention*

**TANVI KANGRALKAR**  
FOWLERMIDDLE SCHOOL  
FRISCO ISD  
*The Cooper Institute - Exercise/Health/Nutrition, Junior, 2nd Place*

**ISAAC KLEIN**  
COBB MIDDLE SCHOOL  
FRISCO ISD  
*The Cooper Institute - Exercise/Health/Nutrition, Junior, 3rd Place*

**JAMES POE**  
VANDEVENTER MIDDLE SCHOOL  
FRISCO ISD  
*WEAT / TAWWA - Junior Division, 2nd Place*

### BIOMEDICAL ENGINEERING & TRANSLATIONAL MEDICAL SCIENCE

**SHANTIKIRAN CHANAL**  
PEARSON MIDDLE SCHOOL  
FRISCO ISD  
**Beal Bank First Prize**  
**Beal Bank Grand Prize**

**VIVEK KOGILATHOTA**  
PEARSON MIDDLE SCHOOL  
FRISCO ISD  
**Beal Bank First Prize**  
**Beal Bank Grand Prize**

**NAVYA RAMAKRISHNAN**  
RICE MIDDLE SCHOOL  
PLANO ISD  
**Beal Bank Second Prize**

**KATHERINE SHAW**  
ROACH MIDDLE SCHOOL  
FRISCO ISD  
**Beal Bank Third Prize**

**ISHAAN JAVALI**  
MURPHY MIDDLE SCHOOL  
PLANO ISD  
*Acoustical Society of America - Outstanding Junior Acoustic Project*

### CELLULAR AND MOLECULAR BIOLOGY & MICROBIOLOGY

**AAYUSH KADAKIA**  
FOWLERMIDDLE SCHOOL  
FRISCO ISD  
**Beal Bank First Prize**

**SIMRAN MISRA**  
FRANKFORD MIDDLE SCHOOL  
FRISCO ISD  
**Beal Bank Second Prize**

# STUDENT AWARDS – JUNIOR DIVISION

**SREYA DAS**  
FOWLERMIDDLE SCHOOL  
FRISCO ISD  
**Beal Bank Third Prize**

## **EARTH & ENVIRONMENTAL SYSTEMS (Group 1)**

**ANIKA PATEL**  
FOWLERMIDDLE SCHOOL  
FRISCO ISD  
**Beal Bank First Prize**

**CAROLE WALKER**  
MURPHY MIDDLE SCHOOL  
PLANO ISD  
**Beal Bank Second Prize**

**KAITLYN FOLMAR**  
STAFFORD MIDDLE SCHOOL  
FRISCO ISD  
**Beal Bank Third Prize**

**JASON SHULMAN**  
RE NNER MIDDLE SCHOOL  
PLANO ISD  
*American Meteorology Society - North Texas Chapter - Meteorology Second Place, Junior Division*

**ALEFIYA KERAJ**  
ROACH MIDDLE SCHOOL  
FRISCO ISD  
*American Meteorology Society - North Texas Chapter - Honorable Mention*

**REAGAN ANDREWS**  
ROACH MIDDLE SCHOOL  
FRISCO ISD  
*American Meteorology Society - North Texas Chapter - Honorable Mention*

**MANSI MADAIK**  
MURPHY MIDDLE SCHOOL  
Plano ISD  
*WEAT / TAWWA - Honorable Mention*

## **EARTH & ENVIRONMENTAL SYSTEMS (Group 2)**

**ISHA RIAZ**  
PEARSON MIDDLE SCHOOL  
FRISCO ISD  
**Beal Bank First Prize**  
*National Oceanic and Atmospheric Administration - Taking the Pulse of the Planet Award*

**SHREYA GHARGE**  
PEARSON MIDDLE SCHOOL  
FRISCO ISD  
**Beal Bank First Prize**  
*National Oceanic and Atmospheric Administration - Taking the Pulse of the Planet Award*

**NEELA SARDESHPANDE**  
NELSON MIDDLE SCHOOL  
FRISCO ISD  
**Beal Bank Second Prize**

**ADITI GUPTA**  
ROACH MIDDLE SCHOOL  
FRISCO ISD  
**Beal Bank Third Prize**

**SHREEMA VIJAYAKUMAR**  
ROACH MIDDLE SCHOOL  
FRISCO ISD  
**Beal Bank Third Prize**

**MARISSA REDINGTON**  
HUNT MIDDLE SCHOOL  
Frisco ISD  
*American Meteorology Society - North Texas Chapter - Honorable Mention*

**PRITI SEE**  
HUNT MIDDLE SCHOOL  
Frisco ISD  
*American Meteorology Society - North Texas Chapter - Honorable Mention*

**SABRINA GORDON**  
HUNT MIDDLE SCHOOL  
Frisco ISD  
*American Meteorology Society - North Texas Chapter - Honorable Mention*

**RISHNA RENIKUNTA**  
FOWLER MIDDLE SCHOOL  
Frisco ISD  
*National Space Society of North Texas - Honorable Mention*

## **ENVIRONMENTAL ENGINEERING**

**ANGELINA YANG**  
ROBINSON MIDDLE SCHOOL  
PLANO ISD  
**Beal Bank First Prize**  
*Office of Naval Research - Naval Science Award, Junior Division*

**TEGAN YAO**  
ROBINSON MIDDLE SCHOOL  
PLANO ISD  
**Beal Bank First Prize**  
*Office of Naval Research - Naval Science Award, Junior Division*

**JANA PULAK**  
MATH SCIENCE TECHNOLOGY  
MAGNET ELEMENTARY SCHOOL  
RICHARDSON ISD  
**Beal Bank Second Prize**

**MARK YANG**  
RICE MIDDLE SCHOOL  
PLANO ISD  
**Beal Bank Third Prize**

**RAGHAV RAMKI**  
RICE MIDDLE SCHOOL  
PLANO ISD  
**Beal Bank Third Prize**

**SKEENAH KALAIR**  
HARMONY SCHOOL OF BUSINESS  
DALLAS MS  
CHARTER  
**Beal Bank Fourth Prize**

## **PLANT SCIENCES**

**AMISHA BAIDYA**  
CURTIS MIDDLE SCHOOL  
ALLEN ISD  
**Beal Bank First Prize**

**NAVEED SADARULANAM**  
FOWLER MIDDLE SCHOOL  
FRISCO ISD  
**Beal Bank Second Prize**

**RACHEL MAMMEN**  
RICE MIDDLE SCHOOL  
PLANO ISD  
**Beal Bank Third Prize**

**BAILEY CRAWFORD**  
ROACH MIDDLE SCHOOL  
FRISCO ISD  
**Beal Bank Fourth Prize**

**JOEY MICHEL**  
ROACH MIDDLE SCHOOL  
FRISCO ISD  
**Beal Bank Fourth Prize**

**LUCAS SASAYA**  
MURPHY MIDDLE SCHOOL  
PLANO ISD  
*WEAT / TAWWA - Junior Division, 3rd Place*

# STUDENT AWARDS – JUNIOR DIVISION

## PHYSICAL SCIENCES

### CHEMISTRY

**CHRISTINE YAN**  
RICE MIDDLE SCHOOL  
PLANO ISD  
**Beal Bank First Prize**

**KRITHI SUBRAMANIAN**  
SCHIMELPFENIG MIDDLE SCHOOL  
PLANO ISD  
**Beal Bank Second Prize**

**JENNY WEI**  
CURTIS MIDDLE SCHOOL  
ALLEN ISD  
**Beal Bank Third Prize**

**VISHNU VASUDEV**  
FOWLER MIDDLE SCHOOL  
Frisco ISD  
**Beal Bank Fourth Prize**

**BRUCE CAPEN III**  
SCOGGINS MIDDLE SCHOOL  
FRISCO ISD  
*U.S. Metric Association - Best Use of SI Units in a Project*

**GRIFFIN DOHERTY**  
SCOGGINS MIDDLE SCHOOL  
FRISCO ISD  
*U.S. Metric Association - Best Use of SI Units in a Project*

### EMBEDDED SYSTEMS

**SOPHIE KRAJMALNIK**  
FRANKFORD MIDDLE SCHOOL  
FRISCO ISD  
**Beal Bank First Prize**  
**Beal Bank Grand Prize**  
*Office of Naval Research - Naval Science Award, Junior Division*  
*Texas Instruments - Best electronics or computing project, Junior Division*  
*The Cooper Institute - Exercise/Health/Nutrition, Junior, 1st Place*

**OTTO BEALL**  
OTTO MIDDLE SCHOOL  
PLANO ISD  
**Beal Bank Second Prize**

**KESHAV VASANTH**  
OTTO MIDDLE SCHOOL  
PLANO ISD  
**Beal Bank Third Prize**  
*WEAT / TAWWA - Junior Division, First Place*

**ISHA KALPAGURI**  
PIONEER HERITAGE MIDDLE  
FRISCO ISD  
*American Industrial Hygiene Association- North Texas Section - Junior Division, First Place*  
*American Meteorology Society - North Texas Chapter - Meteorology First Place, Junior Division*

**ALEXANDER HENNEL**  
VANDEVENTER MIDDLE SCHOOL  
FRISCO ISD  
*Rockwell Collins Leadership Association - Outstanding Communications Project Junior Div. Third Place*

**HARSH PATEL**  
MURPHY MIDDLE SCHOOL  
PLANO ISD  
*Rockwell Collins Leadership Association - Outstanding Communications Project Junior Div. Second Place*  
*Texas Instruments - Best electronics or computing project, Junior Division*

**ANANYA SRIDHAR**  
OTTO MIDDLE SCHOOL  
PLANO ISD  
*Texas Instruments - Best electronics or computing project, Junior Division*

**JONATHAN SMITH**  
OTTO MIDDLE SCHOOL  
PLANO ISD  
*McKinney Amateur Radio Club, Inc - Honorable Mention*

**REBECCA SMITH**  
OTTO MIDDLE SCHOOL  
PLANO ISD  
*McKinney Amateur Radio Club, Inc - Honorable Mention*

### ENERGY: CHEMICAL

**CHARLES HOU**  
SCHIMELPFENIG MIDDLE SCHOOL  
PLANO ISD  
**Beal Bank First Prize**  
*Office of Naval Research - Naval Science Award, Junior Division*

**VINAY RAVI**  
FOWLER MIDDLE SCHOOL  
Frisco ISD  
**Beal Bank Second Prize**

**ARNAV MURTHY**  
SCHIMELPFENIG MIDDLE SCHOOL  
PLANO ISD  
**Beal Bank Third Prize**  
*Office of Naval Research - Naval Science Award, Junior Division*

### ENERGY: PHYSICAL

**AKANKSH BANDARU**  
COPPELL MIDDLE EAST  
COPPELL ISD  
**Beal Bank First Prize**

**MAYANK AJWANI**  
COPPELL MIDDLE EAST  
COPPELL ISD  
**Beal Bank First Prize**

**RUCHIR ADENWALA**  
COPPELL MIDDLE EAST  
COPPELL ISD  
**Beal Bank First Prize**

**AMISHI JAIN**  
MURPHY MIDDLE SCHOOL  
PLANO ISD  
**Beal Bank Second Prize**

**MYKAL MONTGOMERY**  
MURPHY MIDDLE SCHOOL  
PLANO ISD  
**Beal Bank Second Prize**

**GREYSON WONG**  
OTTO MIDDLE SCHOOL  
PLANO ISD  
**Beal Bank Third Prize**

**SATVIK MAHENDRA**  
RICE MIDDLE SCHOOL  
PLANO ISD  
*National Space Society of North Texas - Space Exploration Scholarship 2nd Place*

**ZEHRA JAFFERY**  
HARMONY SCHOOL OF BUSINESS  
DALLAS MS  
CHARTER  
*WK Research, Inc - WK Research Best 6th Grade Project*

**ANDREW MCFEARIN**  
HENDRICK MIDDLE SCHOOL  
PLANO ISD  
*National Space Society of North Texas - Honorable Mention*

# STUDENT AWARDS – JUNIOR DIVISION

## ENGINEERING MECHANICS

### CARTER SMITH

PEARSON MIDDLE SCHOOL  
FRISCO ISD

#### Beal Bank First Prize

*Office of Naval Research - Naval Science Award,  
Junior Division*

### DANIELLE FURMAN

FRANKFORD MIDDLE SCHOOL  
FRISCO ISD

#### Beal Bank Second Prize

### TULIO SASAYA

MURPHY MIDDLE SCHOOL  
PLANO ISD

#### Beal Bank Third Prize

### BRADLEY BLACKWELL

HAGGARD MIDDLE SCHOOL  
PLANO ISD

#### Beal Bank Fourth Prize

### AANCHAL SINGH

FOWLER MIDDLE SCHOOL  
Frisco ISD

*Office of Naval Research - Naval Science Award,  
Junior Division*

### LUKE LOGAN

SCOGGINS MIDDLE SCHOOL  
FRISCO ISD

*Society of American Military Engineers - Honorable  
Mention*

### TANYA ARYA

COBB MIDDLE SCHOOL  
FRISCO ISD

*Society of American Military Engineers - Honorable  
Mention*

### AIDEN DEKOCK

JL LONG MIDDLE SCHOOL  
DALLAS ISD

*WK Research, Inc - Honorable Mention*

### EVAN SEGURA

JL LONG MIDDLE SCHOOL  
DALLAS ISD

*WK Research, Inc - Honorable Mention*

### MARC SEGURA

JL LONG MIDDLE SCHOOL  
DALLAS ISD

*WK Research, Inc - Honorable Mention*

## MATERIALS SCIENCE

### Richard Wille

MURPHY MIDDLE SCHOOL  
PLANO ISD

#### Beal Bank First Prize

### PRESTON PHILLIPS

ROBINSON MIDDLE SCHOOL  
PLANO ISD

#### Beal Bank Second Prize

### REID TOMPKINS

STAFFORD MIDDLE SCHOOL  
FRISCO ISD

#### Beal Bank Third Prize

### GIANNA FAZIO

H. W. LONGFELLOW CAREER  
EXPLORATION ACADEMY  
DALLAS ISD

*WK Research, Inc - Honorable Mention*

## MATHEMATICS & SYSTEMS SOFTWARE

### NAIRIT SARKAR

MILLRIDGE HOMESCHOOL  
HOMESCHOOL

#### Beal Bank First Prize

*Office of Naval Research - Naval  
Science Award, Junior Division*

### SIDHYA PEDDINTI

OTTO MIDDLE SCHOOL  
PLANO ISD

#### Beal Bank Second Prize

### ADITYA PANDA

RICE MIDDLE SCHOOL  
PLANO ISD

#### Beal Bank Third Prize

*Office of Naval Research - Naval  
Science Award, Junior Division*

## PHYSICS & ASTRONOMY

### ASHIRIA WIGGINS

DA HULCY STEAM MIDDLE SCHOOL  
DALLAS ISD

#### Beal Bank First Prize

### BIANCA ESCOBAR

DA HULCY STEAM MIDDLE SCHOOL  
DALLAS ISD

#### Beal Bank First Prize

### KATHERINE FORSON

RENNER MIDDLE SCHOOL  
PLANO ISD

#### Beal Bank Second Prize

*McKinney Amateur Radio Club, Inc -  
Junior Division, First Place*

### KETHANA UPPALAPATI

GRIFFIN MIDDLE SCHOOL  
FRISCO ISD

#### Beal Bank Third Prize

### ROAN MANAK

JL LONG MIDDLE SCHOOL  
DALLAS ISD

*Acoustical Society of America –  
Honorable Mention*

### JACK LEMOINE

JL LONG MIDDLE SCHOOL  
DALLAS ISD

*WK Research, Inc - Honorable Mention*

## ROBOTICS & INTELLIGENT MACHINES

### HARSHAL BHARATIA

WILSON MIDDLE SCHOOL  
PLANO ISD

#### Beal Bank First Prize

#### Beal Bank Grand Prize

### NEEL SHANMUGAM

OTTO MIDDLE SCHOOL  
PLANO ISD

#### Beal Bank Second Prize

### ADITYA RAI

RENNER MIDDLE SCHOOL  
PLANO ISD

#### Beal Bank Third Prize

### SEAN JANNATI

RENNER MIDDLE SCHOOL  
PLANO ISD

#### Beal Bank Third Prize

### SOHAM VERMA

RENNER MIDDLE SCHOOL  
PLANO ISD

#### Beal Bank Third Prize

### NAVYA NANDA

CURTIS MIDDLE SCHOOL  
ALLEN ISD

*American Society of Safety Engineers –  
Junior Division Award*

### IZMA KHURRAM

RICE MIDDLE SCHOOL  
PLANO ISD

*Office of Naval Research - Naval Science  
Award, Junior Division*

### ASHNA MURALI

SCHIMELPFENIG MIDDLE SCHOOL  
PLANO ISD

*Rockwell Collins Leadership Association –  
Outstanding Communications Project Junior  
Div. First Place*

## Senior Division | Life Science

### **Designing a Modified HAC-PD-1 to Antagonize PD-L2 to Improve Cancer Immunotherapy**

*Amanda Moon*

Plano East Senior High School, Plano ISD

### **An Inside Job: The transformation of Escherichia coli K-12 with aiiA encoded plasmids and their translative effects as quorum sensing inhibitors**

*Austin Katzer & Jason Smith*

Plano West Senior High School, Plano ISD

## Senior Division | Physical Science

### **Electroencephalogram (EEG) Sensor and Subsequent Analysis System Optimization for Objective and Point-of-Care Concussion Diagnosis**

*Paritosh Suri*

Plano West Senior High School, Plano ISD

### **Vehicle Action Prediction Using Artificial Intelligence**

*Kevin Meng*

Jasper High School, Plano ISD

# STUDENT AWARDS – SENIOR DIVISION

## LIFE SCIENCES

### ANIMAL SCIENCES & COMPUTATIONAL BIOLOGY AND BIOINFORMATICS

**AMANDA MOON**

PLANO EAST SENIOR HIGH SCHOOL  
PLANO ISD

**Beal Bank First Prize**

**Beal Bank Grand Prize**

*Southwestern Medical Foundation - Kathryn and Ashley H. Priddy Award*

**SABRINA WOOD**

FRISCO HIGH SCHOOL  
FRISCO ISD

**Beal Bank Second Prize**

*Dallas County Veterinary Medical Association - Senior Division, First Place*

**ADITYA VISHNUBHOTLA**

PLANO EAST SENIOR HIGH SCHOOL  
PLANO ISD

**Beal Bank Third Prize**

**SMARAN VELIDI**

PLANO EAST SENIOR HIGH SCHOOL  
PLANO ISD

**Beal Bank Third Prize**

**GRACE WARD**

MCMILLEN HIGH SCHOOL  
PLANO ISD

*Dallas County Veterinary Medical Association - Senior Division, Second Place*

### BEHAVIORAL & SOCIAL SCIENCES

**ESHA BASOOR**

PLANO EAST SENIOR HIGH SCHOOL  
PLANO ISD

**Beal Bank First Prize**

*American Psychological Association – Achievement in Psychological Science*

**SAHARSH DASARI**

PLANO EAST SENIOR HIGH SCHOOL  
PLANO ISD

**Beal Bank Second Prize**

**AASHI LALA**

COPPELL HIGH SCHOOL  
COPPELL ISD

**Beal Bank Third Prize**

*The Cooper Institute - Exercise/Health/Nutrition, Senior, First Place*

**ANVITA UKIDWE**

COPPELL HIGH SCHOOL  
COPPELL ISD

**Beal Bank Third Prize**

*The Cooper Institute - Exercise/Health/Nutrition, Senior, First Place*

**SUCHIRA KARUSALA**

COPPELL HIGH SCHOOL  
COPPELL ISD

**Beal Bank Third Prize**

*The Cooper Institute - Exercise/Health/Nutrition, Senior, First Place*

**CHLOE CHAN**

MCMILLEN HIGH SCHOOL  
PLANO ISD

**Beal Bank Fourth Prize**

**BREIGH PLAT**

FRISCO HIGH SCHOOL  
FRISCO ISD

*The Cooper Institute - Exercise/Health/Nutrition, Senior, Second Place*

**SHIVANI KOSURI**

FRISCO HIGH SCHOOL  
FRISCO ISD

*The Cooper Institute - Exercise/Health/Nutrition, Senior, Second Place*

**JESSICA YANG**

COPPELL HIGH SCHOOL  
COPPELL ISD

*The Cooper Institute - Exercise/Health/Nutrition, Senior, Third Place*

**MACKENZIE CARREON**

COPPELL HIGH SCHOOL  
COPPELL ISD

*The Cooper Institute - Exercise/Health/Nutrition, Senior, Third Place*

### BIOMEDICAL AND HEALTH SCIENCES & TRANSLATIONAL MEDICAL SCIENCE

**RUSSELL RAMSAY**

DALLAS INTERNATIONAL HS  
PRIVATE

**Beal Bank First Prize**

*Baylor Research Institute - Honorable Mention  
Dallas County Medical Society - Honorable Mention*

**VINHHUY LE**

ALLEN HIGH SCHOOL  
ALLEN ISD

**Beal Bank Second Prize**

**GARGI PORWAL**

JASPER HIGH SCHOOL  
PLANO ISD

**Beal Bank Third Prize**

**UMANGI SINGH**

MCMILLEN HIGH SCHOOL  
PLANO ISD

**Beal Bank Fourth Prize**

*Baylor Research Institute - Med. & Health Sciences, Senior Division, Second Place*

**JACOB MAMMEN**

PLANO WEST SENIOR HIGH SCHOOL  
PLANO ISD

*Baylor Research Institute - Med. & Health Sciences, Senior Division, First Place  
Society for In Vitro Biology - Outstanding Achievement in In Vitro Biology, 11th Grade*

**ABHINAV GODAVARTHI**

PLANO WEST SENIOR HIGH SCHOOL  
PLANO ISD

*Baylor Research Institute - Med. & Health Sciences, Senior Division, Third Place  
Dallas County Medical Society - Honorable Mention*

**LIKHITA NANDIGAM**

PLANO WEST SENIOR HIGH SCHOOL  
PLANO ISD

*Baylor Research Institute - Med. & Health Sciences, Senior Division, Third Place  
Dallas County Medical Society - Honorable Mention*

**ALAY SHAH**

SHEPTON HIGH SCHOOL  
PLANO ISD

*Dallas County Medical Society - Second Place*

**JISHNU BASU**

VINES HIGH SCHOOL  
PLANO ISD

*Baylor Research Institute - Honorable Mention*

**VIVEK MATHESH**

PLANO SENIOR HIGH SCHOOL  
PLANO ISD

*Baylor Research Institute - Honorable Mention*

**SAI KOTHA**

COPPELL HIGH SCHOOL  
COPPELL ISD

*Dallas County Medical Society - Honorable Mention*



# STUDENT AWARDS – SENIOR DIVISION

## BIOMEDICAL ENGINEERING

### ROHAN KHERA

PLANO WEST SENIOR HIGH SCHOOL  
PLANO ISD

**Beal Bank First Prize**

**Beal Bank Grand Prize Runner Up**

*Southwestern Medical Foundation - Honorable  
Mention*

### RAKAAN ALHADDAD

PLANO EAST SENIOR HIGH SCHOOL  
PLANO ISD

**Beal Bank Second Prize**

*Dallas County Medical Society - First Place*

### ROHAN MEHTA

PLANO EAST SENIOR HIGH SCHOOL  
PLANO ISD

**Beal Bank Second Prize**

*Dallas County Medical Society - First Place*

### SHELLY GOEL

SCHOOL OF SCIENCE AND ENGINEERING AT  
YVONNE A. EWELL TOWNVIEW CENTER  
DALLAS ISD

**Beal Bank Third Prize**

### ERIC MILES

SHEPTON HIGH SCHOOL  
PLANO ISD

*American Industrial Hygiene Association- North  
Texas Section - Senior Division, First Place*

### HUMZA SALIM

JASPER HIGH SCHOOL  
PLANO ISD

*Acoustical Society of America - Honorable Mention*

### YOUSUF AHMAD

JASPER HIGH SCHOOL  
PLANO ISD

*Acoustical Society of America - Honorable Mention*

## CELLULAR AND MOLECULAR BIOLOGY & BIOCHEMISTRY

### KSHITIJ SACHAN

PLANO EAST SENIOR HIGH SCHOOL  
PLANO ISD

**Beal Bank First Prize**

**Beal Bank Grand Prize Runner Up**

### YESH DOCTOR

PLANO EAST SENIOR HIGH SCHOOL  
PLANO ISD

**Beal Bank First Prize**

**Beal Bank Grand Prize Runner Up**

### NOAH MATHAI

JASPER HIGH SCHOOL  
PLANO ISD

**Beal Bank Second Prize**

### PRANAV CIVI

JASPER HIGH SCHOOL  
PLANO ISD

**Beal Bank Second Prize**

### CLAIRE CHIANG

SHEPTON HIGH SCHOOL  
PLANO ISD

**Beal Bank Third Prize**

## EARTH & ENVIRONMENTAL SYSTEMS

### ALVIN TA

PLANO EAST SENIOR HIGH SCHOOL  
PLANO ISD

**Beal Bank First Prize**

*GENIUS Olympiad - Exceptional  
Genius Award*

*NASA - Earth System Science Award  
Terracon, Inc. - Environmental  
Excellence Award, Senior Div. Second  
Place Individual*

### SHIVA TEERDHALA

PLANO EAST SENIOR HIGH SCHOOL  
PLANO ISD

**Beal Bank First Prize**

*GENIUS Olympiad - Exceptional  
Genius Award*

*NASA - Earth System Science Award  
Terracon, Inc. - Environmental  
Excellence Award, Senior Div. Second  
Place Individual*

### MARK PANJAITAN

CLARK HIGH SCHOOL  
PLANO ISD

**Beal Bank Second Prize**

*U.S. Environmental Protection Agency  
6th chapter - Exemplary Achievement  
in Environmental Protection*

### THOMAS KUO

CLARK HIGH SCHOOL  
PLANO ISD

**Beal Bank Second Prize**

*U.S. Environmental Protection Agency  
6th chapter - Exemplary Achievement  
in Environmental Protection*

### SHREYA JAIN

URSULINE ACADEMY  
DIOCESE OF DALLAS

**Beal Bank Third Prize**

### ANTHONY JIANG

PLANO WEST SENIOR HIGH SCHOOL  
PLANO ISD

*American Meteorology Society - North  
Texas Chapter Meteorology First  
Place, Senior Division*

*American Meteorology Society -  
Outstanding Achievement in  
Atmospheric Science, Senior Division  
U.S. Environmental Protection Agency  
6th chapter - Achievement in  
Environmental Protection Honorable  
Mention*

### MEGHANA NADELLA

ALLEN HIGH SCHOOL  
ALLEN ISD

*Stockholm Junior Water Prize - Best  
Water Project- High School  
WEAT / TAWWA - Senior Division,  
First Place*

### SAHANA RAMASAMY

COPPELL HIGH SCHOOL  
COPPELL ISD

*U.S. Environmental Protection Agency  
6th chapter - Exemplary Achievement  
in Environmental Protection*

### CLAIRE JENKINS

BISHOP LYNCH HIGH  
PAROCHIAL

*Dallas County Veterinary Medical  
Association - Honorable Mention*

### DRAVEN HENDERSON

UPLIFT HAMPTON HIGH SCHOOL  
CHARTER

*U.S. Environmental Protection Agency  
6th chapter - Achievement in  
Environmental Protection Honorable  
Mention*

### DYLAN MONK

UPLIFT HAMPTON HIGH SCHOOL  
CHARTER

*U.S. Environmental Protection Agency  
6th chapter - Achievement in  
Environmental Protection Honorable  
Mention*

### KRITHIKA RAVISHANKAR

COPPELL HIGH SCHOOL  
COPPELL ISD

*U.S. Environmental Protection Agency  
6th chapter - Achievement in  
Environmental Protection Honorable  
Mention*

### TARAN GUPTA

SHEPTON HIGH SCHOOL  
PLANO ISD

*U.S. Environmental Protection Agency  
6th chapter - Achievement in  
Environmental Protection Honorable  
Mention*

# STUDENT AWARDS – SENIOR DIVISION

## ENVIRONMENTAL ENGINEERING

### PRANATHI PILLA

JASPER HIGH SCHOOL  
PLANO ISD

#### Beal Bank First Prize

*Office of Naval Research - Naval Science Award, Senior Division*

*U.S. Environmental Protection Agency 6th chapter - Achievement in Environmental Protection Honorable Mention*

### BORIS VESSELINOV

PLANO WEST SENIOR HIGH SCHOOL  
PLANO ISD

#### Beal Bank Second Prize

### NICHOLAS ZHONG

JASPER HIGH SCHOOL  
PLANO ISD

#### Beal Bank Third Prize

### RISHA VALERA

JASPER HIGH SCHOOL  
PLANO ISD

#### Beal Bank Fourth Prize

*U.S. Environmental Protection Agency 6th chapter - Achievement in Environmental Protection Honorable Mention*

### PRANAY SRIVASTAVA

ALLEN HIGH SCHOOL  
ALLEN ISD

*American Meteorology Society - North Texas Chapter - Meteorology Second Place, Senior Division*  
*American Meteorology Society - Outstanding Achievement in Atmospheric Science, Senior Division*

### JOHN RHO

SHEPTON HIGH SCHOOL  
PLANO ISD

*DFW Chapter of Hazardous Materials Managers - First Place Senior Division Best Hazardous Materials Project Terracon, Inc. - Environmental Excellence Award, Senior Div. 1st Place Individual*

### SUJOY PURKAYASTHA

PLANO SENIOR HIGH SCHOOL  
PLANO ISD

*Office of Naval Research - Naval Science Award, Senior Division*

*U.S. Environmental Protection Agency 6th chapter - Achievement in Environmental Protection Honorable Mention*

### MICHAEL CHEN

JASPER HIGH SCHOOL  
PLANO ISD

*Terracon, Inc. - Environmental Excellence Award, Senior Div. Third Place Individual*

### JACQUELINE MOJAZZA

PLANO WEST SENIOR HIGH SCHOOL  
PLANO ISD

*WEAT / TAWWA - Senior Division, Third Place*

### TEDDY HSIEH

PLANO WEST SENIOR HIGH SCHOOL  
PLANO ISD  
*WEAT / TAWWA - Senior Division, Third Place*

### MERISSA RIEKEN

HARMONY SCHOOL OF NATURE  
(DALLAS) HIGH SCHOOL  
CHARTER  
*National Space Society of North Texas - Honorable Mention*

### JOSEPH MENDOZA

HARMONY SCHOOL OF NATURE  
(DALLAS) HIGH SCHOOL  
CHARTER  
*National Space Society of North Texas - Honorable Mention*

### ZACKRY THOMAS

HARMONY SCHOOL OF NATURE  
(DALLAS) HIGH SCHOOL  
CHARTER  
*National Space Society of North Texas - Honorable Mention*

### KARTHIK KARUPPIAH

COPPELL HIGH SCHOOL  
COPPELL ISD  
*U.S. Environmental Protection Agency 6th chapter - Achievement in Environmental Protection Honorable Mention*

### OM DODIYA

THE ACADEMY HIGH SCHOOL  
PLANO ISD  
*U.S. Environmental Protection Agency 6th chapter - Achievement in Environmental Protection Honorable Mention*

### SHAAN BHANDARI

THE ACADEMY HIGH SCHOOL  
PLANO ISD  
*U.S. Environmental Protection Agency 6th chapter - Achievement in Environmental Protection Honorable Mention*

### ZACH VAZHEKATT

COPPELL HIGH SCHOOL  
COPPELL ISD  
*U.S. Environmental Protection Agency 6th chapter - Achievement in Environmental Protection Honorable Mention*

## MICROBIOLOGY

### AUSTIN KATZER

PLANO WEST SENIOR HIGH SCHOOL  
PLANO ISD

**Beal Bank First Prize**  
**Beal Bank Grand Prize**

### JASON SMITH

PLANO WEST SENIOR HIGH SCHOOL  
PLANO ISD

**Beal Bank First Prize**  
**Beal Bank Grand Prize**

### AKANKSHA DEKA

PLANO EAST SENIOR HIGH SCHOOL  
PLANO ISD

**Beal Bank Second Prize**

### SAVANNAH PAS

PLANO EAST SENIOR HIGH SCHOOL  
PLANO ISD

**Beal Bank Third Prize**

## PLANT SCIENCES

### OLIVIA MCCOY

PLANO EAST SENIOR HIGH SCHOOL  
PLANO ISD

**Beal Bank First Prize**

### KAVYA MURALIDHAR

PLANO EAST SENIOR HIGH SCHOOL  
PLANO ISD

**Beal Bank Second Prize**

### MABRY WEBB

BISHOP LYNCH HIGH  
PAROCHIAL

**Beal Bank Third Prize**

### TOM VAZHEKATT

COPPELL HIGH SCHOOL  
COPPELL ISD

*Stockholm Junior Water Prize - Best Water Project- High School*  
*WEAT / TAWWA - Senior Division, Second Place*

### MAGGIE FOSMARK

SHEPTON HIGH SCHOOL  
PLANO ISD

*The Mars Society -DFW Chapter - Honorable Mention*

## PHYSICAL SCIENCES

## CHEMISTRY

### ABHILASH POTLURI

PLANO SENIOR HIGH SCHOOL  
PLANO ISD

**Beal Bank First Prize**  
*American Chemical Society DFW - Best Chemistry Project*  
*Office of Naval Research - Naval Science Award, Senior Division*

# STUDENT AWARDS – SENIOR DIVISION

**ERIC CHEN**

PLANO SENIOR HIGH SCHOOL  
PLANO ISD

**Beal Bank Second Prize**

*American Chemical Society DFW - Honorable  
Mention*

**ARYAN JAIN**

PLANO EAST SENIOR HIGH SCHOOL  
PLANO ISD

**Beal Bank Third Prize**

**RISHIT THAKKAR**

PLANO EAST SENIOR HIGH SCHOOL  
PLANO ISD

**Beal Bank Third Prize**

**CHLOE FIGURA**

BISHOP LYNCH HIGH  
PAROCHIAL

*American Chemical Society DFW - Honorable  
Mention*

## EMBEDDED SYSTEMS

**PARITOSH SURI**

PLANO WEST SENIOR HIGH SCHOOL  
PLANO ISD

**Beal Bank First Prize**

**Beal Bank Grand Prize**

*Air Force Research Laboratory - Air Force Prize*

**BURZIN BALSARA**

PLANO SENIOR HIGH SCHOOL  
PLANO ISD

**Beal Bank Second Prize**

*Air Force Research Laboratory - Air Force Prize*

**MALAV SHAH**

PLANO SENIOR HIGH SCHOOL  
PLANO ISD

**Beal Bank Second Prize**

*Air Force Research Laboratory - Air Force Prize*

**ANNA THEODORE**

JASPER HIGH SCHOOL  
PLANO ISD

**Beal Bank Third Prize**

*Texas Instruments - Best electronics or computing  
project, Senior Division*

**ALEX NI**

JASPER HIGH SCHOOL  
PLANO ISD

*McKinney Amateur Radio Club, Inc - Senior  
Division, First Place*

*Office of Naval Research - Naval Science  
Award, Senior Division*

**ARYAN AGARWAL**

PLANO EAST SENIOR HIGH SCHOOL  
PLANO ISD

*Texas Instruments - Best electronics or computing  
project, Senior Division*

## ENERGY: CHEMICAL & ENERGY: PHYSICAL

**ESHAN CHHABRA**

PLANO SENIOR HIGH SCHOOL  
PLANO ISD

**Beal Bank First Prize**

**Beal Bank Grand Prize Runner Up**

*GENIUS Olympiad - Exceptional Genius  
Award*

**KUSHAL SHAH**

PLANO SENIOR HIGH SCHOOL  
PLANO ISD

**Beal Bank Second Prize**

**NATHAN WILLE**

PLANO EAST SENIOR HIGH SCHOOL  
PLANO ISD

**Beal Bank Third Prize**

## ENGINEERING MECHANICS

**DEREK QIN**

JASPER HIGH SCHOOL  
PLANO ISD

**Beal Bank First Prize**

*Air Force Research Laboratory - Air  
Force Prize*

*Office of Naval Research - Naval Science  
Award, Senior Division*

*Terracon, Inc. - Engineering Excellence  
Award, Senior Div. Third Place  
Individual*

**ARNOLD VENTER**

SHEPTON HIGH SCHOOL  
PLANO ISD

**Beal Bank Second Prize**

*Air Force Research Laboratory - Air  
Force Prize*

**THEA OWENS**

MCMILLEN HIGH SCHOOL  
PLANO ISD

**Beal Bank Third Prize**

**RONIT KIRUMAKI**

SHEPTON HIGH SCHOOL  
PLANO ISD

*Terracon, Inc. - Engineering Excellence  
Award, Senior Div. First Place  
Individual*

**SHOHAN GHOSHAL**

SHEPTON HIGH SCHOOL  
PLANO ISD

*Terracon, Inc. - Engineering Excellence  
Award, Senior Div. First Place  
Individual*

**JOSHUA WANG**

JASPER HIGH SCHOOL  
PLANO ISD

*Terracon, Inc. - Engineering Excellence  
Award, Senior Div. 2nd Place Individual*

## MATERIALS SCIENCE

**ASHAY SHAH**

PLANO EAST SENIOR HIGH SCHOOL  
PLANO ISD

**Beal Bank First Prize**

**ASHNA SHAH**

PLANO EAST SENIOR HIGH SCHOOL  
PLANO ISD

**Beal Bank First Prize**

**ARUN ESWARA**

PLANO EAST SENIOR HIGH SCHOOL  
PLANO ISD

**Beal Bank Second Prize**

**AVI PATEL**

PLANO EAST SENIOR HIGH SCHOOL  
PLANO ISD

**Beal Bank Second Prize**

**THOMAS PAUL**

PLANO EAST SENIOR HIGH SCHOOL  
PLANO ISD

**Beal Bank Second Prize**

**ARSHIA ELAHI**

JASPER HIGH SCHOOL  
PLANO ISD

**Beal Bank Third Prize**

*Acoustical Society of America - Outstanding  
Senior Acoustic Project*

**SUJAI HIREMATH**

PLANO EAST SENIOR HIGH SCHOOL  
PLANO ISD

*Office of Naval Research - Naval Science  
Award, Senior Division*

**ESHA KUMAR**

COPPELL HIGH SCHOOL  
COPPELL ISD

*Society of American Military Engineers –  
Best Engineering Project*

**CATHERINE YANG**

JASPER HIGH SCHOOL  
PLANO ISD

*The Mars Society -DFW Chapter –  
Honorable Mention*

# STUDENT AWARDS – SENIOR DIVISION

## MATHEMATICS

### MARI TAIRA

COPPELL HIGH SCHOOL  
COPPELL ISD

#### **Beal Bank First Prize**

*MU Alpha Theta - Award for Mathematics*

### VISHAL SIVAMNI

COPPELL HIGH SCHOOL  
COPPELL ISD

#### **Beal Bank First Prize**

*MU Alpha Theta - Award for Mathematics*

### JONATHAN LI

CLARK HIGH SCHOOL  
PLANO ISD

#### **Beal Bank Second Prize**

### ROHAN POTRU

CLARK HIGH SCHOOL  
PLANO ISD

#### **Beal Bank Second Prize**

### HUBERT YANG

JASPER HIGH SCHOOL  
PLANO ISD

#### **Beal Bank Third Prize**

## PHYSICS & ASTRONOMY

### RITHVIK RAMESH

PLANO EAST SENIOR HIGH SCHOOL  
PLANO ISD

#### **Beal Bank First Prize**

*The Mars Society -DFW Chapter - The Mars Society-Curiosity Award*

### I-JUNG LIN

PLANO SENIOR HIGH SCHOOL  
PLANO ISD

#### **Beal Bank Second Prize**

### MOIRA HUMPHRIES

COPPELL HIGH SCHOOL  
COPPELL ISD

#### **Beal Bank Third Prize**

### NIKKI KAMDAR

ALLEN HIGH SCHOOL  
ALLEN ISD

*Society of American Military Engineers - Honorable Mention*

### NOOSRAT RAHMAN

ALLEN HIGH SCHOOL  
ALLEN ISD

*Society of American Military Engineers - Honorable Mention*

## ROBOTICS & INTELLIGENT MACHINES

### KEVIN MENG

JASPER HIGH SCHOOL  
PLANO ISD

#### **Beal Bank First Prize**

#### **Beal Bank Grand Prize**

*Office of Naval Research - Naval Science Award, Senior Division*

*Rockwell Collins Leadership Association – Outstanding Communications Project*

*Senior Div. Second Place*

### PRANAV NATHAN

JASPER HIGH SCHOOL  
PLANO ISD

#### **Beal Bank Second Prize**

### YINGJIE WANG

JASPER HIGH SCHOOL  
PLANO ISD

#### **Beal Bank Third Prize**

### NIKOLA DJORDJEVIC-KISACANIN

JASPER HIGH SCHOOL  
PLANO ISD

*Office of Naval Research - Naval Science Award, Senior Division*

### RHYTHM GARG

FRISCO HIGH SCHOOL  
FRISCO ISD

*Rockwell Collins Leadership Association – Outstanding Communications Project*  
*Senior Div. First Place*

### ALEX LIN

PLANO EAST SENIOR HIGH SCHOOL  
PLANO ISD

*Rockwell Collins Leadership Association – Outstanding Communications Project*  
*Senior Div. Third Place*

### ATHARVA KAKADE

JASPER HIGH SCHOOL  
PLANO ISD

*Texas Instruments - Best electronics or computing project, Senior Division*

## SYSTEMS SOFTWARE

### TRISTON ZHANG

PLANO SENIOR HIGH SCHOOL  
PLANO ISD

#### **Beal Bank First Prize**

#### **Beal Bank Grand Prize Runner Up**

*Intel - Excellence in Computer Science Award*

### KAILASH SUBRAMANIAN

PLANO SENIOR HIGH SCHOOL  
PLANO ISD

#### **Beal Bank Second Prize**

*Yale Science & Engineering Association, Inc. - Most Outstanding 11th Grade Exhibit*

### WILLIAM HURLEY

MCMILLEN HIGH SCHOOL  
PLANO ISD

#### **Beal Bank Third Prize**

### FATIMA KHALID

ISLAMIC SCHOOL OF IRVING HIGH SCHOOL  
PAROCHIAL

*American Society of Safety Engineers – Senior Division Award*