



ASEF

Alabama Science & Engineering Fair

2021-2022 Awards List (Junior Division)

SPECIAL AWARD RECOGNITIONS

AU - 100 Women Strong Achievement Award

Sponsored by: AU - 100 Women Strong

This achievement award recognizes females that exemplify excellence through research in any category. Winners will receive the following -1st place \$100 cash prize and a certificate, 2nd place \$75 cash prize and a certificate, 3rd place \$50 cash prize and a certificate.

1st place – Kaelyn Pettway – Carver Magnet School

2nd place – Caralee Kauffman – Providence Classical School

3rd place – Anna Diaz – Providence Classical School

AU - Biological Sciences Award for Outstanding Poster in Animal and Plant Sciences

Sponsored by: AU - Department of Biological Sciences

This award recognizes an outstanding poster in the Animal, Plant, Computational and Bioinformatics Sciences category by a middle school student. The awardee will receive a certificate and a \$100 cash award.

The winner is: Brooke May – Clark-Shaw Magnet School

AU - Biological Sciences Award for Outstanding Poster in Medicine and Health Sciences

Sponsored by: AU - Department of Biological Sciences

This award recognizes an outstanding poster in the Medicine, Health & Translational Medical Sciences category by a middle school student. The awardee will receive a certificate and a \$100 cash award.

The winner is: Sophia Guo and Nathan Lee – Northridge Middle School

AU - Biosystems Engineering Award

Sponsored by: AU - Biosystems Engineering Department

This achievement award recognizes an individual that demonstrates an innovative approach to application of math and or engineering to biological systems. The winner will receive a certificate and a \$75 cash award.

The winner is: Louisa Markert – Indian Springs School

AU - Chemical Engineering Award

Sponsored by: AU - Chemical Engineering Department

This award recognizes high achievement in scientific research in fields related to Chemical Engineering or Applied Chemistry. The winner will receive a certificate and a \$100 cash award.

The winner is: Atharv Uddi – Northridge Middle School

AU - COSAM Future Scientist Award

Sponsored by: AU - College of Sciences and Mathematics

This award will be given to a student, in any category, who demonstrates a complete, thorough and current understanding of a scientific topic during their interview. As such, this student shows great promise as a future scientific researcher. The award winner will receive a certificate and a \$100 cash award.

The winner is: Atharv Uddi – Northridge Middle School

AU - Department of Chemistry and Biochemistry Award

Sponsored by: AU - Department of Chemistry/Biochemistry

This award is designed to recognize the top chemistry/biochemistry project. The awardee will receive a certificate and \$50 cash award.

The winner is: Joseph Hardin – Holy Spirit Catholic School

AU - Department of Geosciences Award

Sponsored by: AU - Department of Geosciences

This award recognizes high achievement in the area of geoscience, geology, and geography. The winner will be presented with a certificate and \$50 cash award.

The winner is: Nikita Prabhakar – Discovery Middle School

AU - Innovation of Robotic Systems

Sponsored by: AU - Southeastern Center of Robotics Education (SCORE)

This award recognizes a project that shows great promise in the use of robotic systems. The winner will receive a certificate and a \$100 cash award.

There were no projects that met the criteria at this level this year.

AU - Physics Award for Ingenuity and Inventiveness

Sponsored by: AU - Department of Physics

This award recognizes someone who demonstrates and understanding of the laws of physics and how to use them to interpret and understand the world around us. The winner will receive a certificate and a \$50 cash award.

The winner is: Nooraan Elbahrawi and Leen Zidan – Islamic Academy of Alabama

AU - Samuel Ginn College of Engineering Award

Sponsored by: AU - Samuel Ginn College of Engineering

This award recognizes a project, in any category, that demonstrates an innovative application of math or science to a societal challenge. The award winner will receive a certificate for their efforts and a \$100 cash award.

The winner is: Sophia Jerez – Horizon Elementary School

AU - Society of Hispanic Professional Engineers Young Innovator Award

Sponsored by: AU - Society of Hispanic Professional Engineers

This award recognizes research excellence presented by a minority student in an effort to encourage a lifelong enthusiasm for the sciences in traditionally underrepresented demographics. The junior division winner will receive a certificate and \$50 cash award.

The winner is: Peyton Danley, Matthew Forsey, Delroy Williams – Selma Street Elementary

AU - Society of Women in Sciences and Mathematics Achievement Award

Sponsored by: AU - Society of Women in Sciences and Mathematics

This award recognizes high achievement in scientific research by a female. The winner of this award will receive a certificate and a \$50 cash award.

The winner is: Brooke May – Clark-Shaw Magnet School

AU - Spirit of Excellence Award

Sponsored by: AU - COSAM Office of Inclusion, Diversity and Equity

This award recognizes any student for any category considered an underrepresented minority in STEM (African Americans, American Indians including Native Alaskans, Hispanics and Native Pacific Islanders), or persons with disabilities. The winner will receive a certificate and a \$50 cash award.

The winner is: Anna Diaz – Providence Classical School

AU - Talent in Mathematics and Statistics Award

Sponsored by: AU - Department of Mathematics and Statistics

This award recognizes a project, from any category, that demonstrates a strong mathematical and statistical analysis. The winner will receive a certificate and a \$50 cash award.

The winner is: Louisa Markert – Indian Springs School

Future Rocket Scientist Award

Sponsored by: AU - Aerospace Engineering Department

This award recognizes high achievement in research related to Aerospace Engineering.

The winner is: Luke Barrow – Columbia Elementary School

Lemelson Early Inventor Prize

Sponsored by: The Lemelson Foundation

This award will recognize a young inventor creating a promising solution to real-world problems. The winner will receive a certificate and an award verification letter redeemable for a \$100 cash award.

The winner is: Evan Nematpour – Morris Slingluff Elementary School

Naval Science Award

Sponsored by: The Office of Naval Research

This award recognizes up to 4 students who show excellence in science or engineering. Winners will receive a certificate and a medallion.

The winners are:

Asher Warren – Duran North Junior High School

Brandt Jenkins – Hampton Cove Middle School

Sterling Logsdon – Carver Magnet School

William McGuire – McGuire Homeschool

NOAA Award - "Taking the Pulse of the Planet Award"

Sponsored by: NOAA

This award will go to one individual selected from among all the general award categories whose research emphasizes NOAA's mission of Science, Service, and Stewardship: "To understand and predict changes in climate, weather, oceans, and coasts, To share that knowledge and information with others, and To conserve and manage coastal and marine ecosystems and resources." Awardee will receive a certificate and a letter.

The winner is: Leigha Newton – Clark-Shaw Magnet School

Science, Technology, Engineering & Math (STEM) Achievement Award (U.S. Air Force)

Sponsored by: US Airforce

This certificate will be given to a student who shows excellence in science or engineering.

The winner is: Peyton Danley, Matthew Forsey, Delroy Williams – Selma Street Elementary

Now we will shift gears and announce the placement winners of each category. A judging panel of over 40 scientists and engineers determined which projects scored highest in each category. Students who placed 1st, 2nd or 3rd will receive a medal and certificate. In addition, the 1st place winner of each category will receive a \$100 cash prize while the 2nd place winner will receive a \$50 cash prize.

CATEGORY AWARDS

Category 100: Animal, Plant, Computational & Bioinformatics Sciences

1st – Kellum Rankin – Hilltop Montessori School

2nd – Amara Cohee – Providence Classical School

3rd – Brooke May – Clark-Shaw Magnet School

Category 200: Behavioral & Social Sciences

1st – Rhyana Mahatsente – Tuscaloosa Magnet Middle School

2nd – Malak Alabsi – Islamic Academy of Alabama

3rd – Jack Nash – Millbrook Middle School

Category 300: Cell, Molecular, Microbiology & Biochemistry

1st – Connor Murphree – Liberty Middle School

2nd – Aeesha Mulani – Tuscaloosa Magnet Middle School

3rd – Zoe McGee – Horizon Elementary

Category 400: Chemistry

1st – Atharv Uddi – Northridge Middle School

2nd – Joseph Hardin – Holy Spirit Catholic School

3rd – Joseph Hathaway – Dothan Prep Academy

Category 500: Engineering Mechanics – Sponsored by AU Department of Electrical and Computer Engineering

1st – Sophia Jerez – Horizon Elementary

2nd – Asher Warren – Duran North Junior High School

3rd – Evan Nematpour – Morris Slingluff Elementary

Category 600: Energy: Sustainable Materials and Design

- 1st – Yusuf Nabi – Islamic Academy of Alabama
- 2nd – Caralee Kauffman – Providence Classical School
- 3rd – Hudhayfah Rasheed – Islamic Academy of Alabama

Category 700: Earth and Environmental Sciences

- 1st – Leigha Newton – Clark-Shaw Magnet School
- 2nd – Nikita Prabhakar – Discovery Middle School
- 3rd – Joseph LeFevre – Wetumpka Middle School

Category 800: Medicine, Health and Translational Medical Sciences – Sponsored by the Virginia College of Medicine (VCOM)

- 1st – Sophia Guo and Nathan Lee – Northridge Middle School
- 2nd – Dominic Vilardi – Wetumpka Middle School
- 3rd – Ethan Pemberton and Evan Dunn – Highlands Elementary

Category 900: Physics, Astronomy, Mathematics & Materials Science

- 1st – Jakob DeBoer – Hampton Cove Middle School
- 2nd – Kasen Veillon – Holy Spirit Catholic School
- 3rd – Matthew Scauzillo – Horizon Elementary School

Category 1100: Robotic Systems & Communication Technology

- 1st – Brandt Jenkins – Hampton Cove Middle School
- 2nd – William McGuire – McGuire Homeschool
- 3rd – George Detwiler – St. John the Baptist Catholic School

Category 1200: Bio-Engineering

- 1st – Louisa Markert – Indian Springs School
- 2nd – Avonlea House – Clark-Shaw Magnet School
- 3rd – Kaelyn Pettway – Carver Magnet School

Broadcom MASTERS

Sponsored by: Broadcom MASTERS

The Broadcom MASTERS is the national competition for 6th, 7th, and 8th grade students who participate in affiliated science fairs. Our fair has the honor of selecting the top 10% of projects today to continue their journey to the national competition. Broadcom MASTERS nominees are invited to complete the online application and are eligible for valuable prizes and awards including \$25,000, iPads, STEM summer camp, and more. This nomination is an honor and distinguishes these projects as among the top 10% in the nation. From the complete list of entrants, the top 300 semi-finalists will be selected and announced next fall. We were very fortunate to have a student from our region selected as a Top 300 finalist in 2019! This list of 300 will be narrowed to 30 and those students who are selected will win an all-expense-paid trip to the Broadcom MASTERS finals from October 27 – November 2, 2022 in Washington DC.

This year's Broadcom MASTERS nominees are:

1. Athrav Uddi – Northridge Middle School
2. Kellum Rankin – Hilltop Montessori School
3. Joseph Hardin – Holy Spirit Catholic
4. Brandt Jenkins – Hampton Cove Middle School
5. Sophia Guo and Nathan Lee – Northridge Middle School
6. Amara Cohee – Providence Classical
7. Connor Murphree – Liberty Middle School
8. Sophia Jerez – Horizon Elementary School
9. Brooke May – Clark-Shaw Magnet School
10. Aeesha Mulani – Tuscaloosa Magnet Middle School

Students will receive a certificate and further instructions on how to complete their application for the Broadcom MASTERS program. **Students will need the ASEF Fair ID which is USAL50 to complete your application.**

Congratulations to all of our participants and winners!

A few notes for winners:

- 1.) This year's winners have received a variety of awards – some sponsored internally by Auburn University as well as others sponsored by other outside organizations. We will mail all certificates and medals to your school. Please note, some of these awards may have a specific requirement for follow up action (especially cash prizes). Directions and any additional forms, paperwork or instructions will be included in your award packet.

Please pay close attention to all stated deadlines to avoid any issues.