

2025 Junior Division Awards

Alabama Science and Engineering Fair



Special Awards Junior Division (grades 6-8)

The Lemelson Foundation

Lemelson Early Inventor Prize

Special Award Description:

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.

Student Name: Brooke Baker, Blakely Sheppard

School: Dothan Prep Academy

Project Name: Pee Power: Using Urine in a Microbial Fuel Cell

Broadcom Foundation

Broadcom Coding with Commitment Award

Special Award Description:

This award will go to a student whose project emphasizes how STEM knowledge and technology come together to create solutions that protect, preserve, save, improve, or promote quality of life or nature. Awardee will receive a \$250 gift certificate and a Raspberry Pi Pico Kit.

Student Name: Melody Kwarteng

School: Oakwood Adventist Academy (MS)

Project Name: Obstacle detecting Smart Glasses for Visually impaired

QuantHub

QuantHub Distinguished Data Scholar Award

Special Award Description:

This award recognizes a student who has shown exceptional proficiency and creativity in data science. The awardee will receive a certificate and a \$100 cash award.

Student Name: Peter Diaz

School: Providence Classical School (MS)

Project Name: Time to Fly

IERUS Technologies, Inc

Excellence in Electromagnetics Award

Special Award Description:

This award recognizes the creative use of lasers, radar, electronics, magnets, computers, or other innovative applications of electromagnetism in a science or engineering project.

Student Name: Devansh Goyal
School: Journey Middle School
Project Name: Obstacle-Detecting Glasses for Visually Impaired People

**United States Air Force
Air Force Award**

Special Award Description:

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

Student Name: Maryam Rasheed
School: Islamic Academy of Alabama
Project Name: Power Impact

**East Alabama and West Georgia local section of the American Chemical Society
East Alabama and West Georgia ACS Award**

Special Award Description:

This award is sponsored by the East Alabama / West Georgia local section of the American Chemical Society and celebrates creativity and understanding within chemical science. The awardee will receive a certificate and \$100 cash award.

Student Name: Junehyuk Lee
School: Auburn Jr. High School
Project Name: Use of Leucomethylene Blue to Detect Bleach

**100+ Women Strong at Auburn University
100+ Women Strong Achievement Award**

Special Award Description:

This achievement award recognizes a student that exemplifies excellence through research in any category. The awardee will receive \$100 cash award and a certificate.

Student Name: Emma Taylor
School: Holy Family School
Project Name: Spare-Change Circus

**Department of Biological Sciences at Auburn University
Biological Sciences Award in Cell, Molecular, Microbiology and Biochemistry**

Special Award Description:

This award recognizes an outstanding poster in the Cell, Molecular, Microbiology & Biochemistry category by a middle school student. The awardee will receive a certificate and a \$100 cash award.

Student Name: Karthik Panchavati
School: Liberty Middle School
Project Name: Gut Wars : Comparing Probiotics In Yogurt Vs Probiotic Capsules



Department of Biological Sciences at Auburn University
Biological Sciences Award in Animal, Plant Sciences and Bioinformatics

Special Award Description:

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.

Student Name: Minseung Lee

School: Auburn Jr. High School

Project Name: How do various pH levels of soil affect the growth of a bean?

Department of Biological Sciences at Auburn University
Biological Sciences Award in Medicine and Health Sciences

Special Award Description:

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.

Student Name: Daksh Sunil

School: Liberty Middle School

Project Name: From Innovation to Impact: Building an Artificial Pancreas for Diabetes

Department of Chemistry and Biochemistry at Auburn University
Chemistry and Biochemistry Award

Special Award Description:

This award is designed to recognize the top chemistry/biochemistry project. The awardee will receive a certificate and \$100 cash award.

Student Name: Aritra Biswas

School: Phillips Preparatory School

Project Name: "Abracadabra! The Magic of Amylase Enzymes in Bread Breakdown"

Department of Geosciences at Auburn University
Geosciences Award

Special Award Description:

This award recognizes high achievement in the area of geoscience, geology, and geography. The winners will be presented with a certificate and \$100 cash award.

Student Name: Corbin Perry

School: Clark-Shaw Magnet School

Project Name: Living Shorelines: Attack of the Waves

Southeastern Center of Robotics Education (S.C.O.R.E.) at Auburn University
Innovation of Robotic Systems

Special Award Description:

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.

Student Name: Ryan Ranjan
School: Liberty Middle School
Project Name: Wind Tunnel working model

Department of Physics at Auburn University
Physics Award for Ingenuity and Inventiveness

Special Award Description:

This award recognizes a student who demonstrates an 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 \$100 cash award.

Student Name: Maryam Rasheed
School: Islamic Academy of Alabama
Project Name: Power Impact

Associate Dean for Research, College of Sciences and Mathematics at Auburn University

Innovation in Science Research Award

Special Award Description:

This award recognizes an innovative topic or innovative approaches in research methodologies for a science project. The winner will receive a certificate and \$100 cash award.

Student Name: Benjamin Stringfellow
School: Phillips Preparatory School
Project Name: A Helping Hand: Building a Nail/Screw Holder

I-STEM Connectory at Auburn University
Garage Science Award

Special Award Description:

Many scientific discoveries or engineering marvels have happened outside of a laboratory. This award celebrates a student who created an outstanding project within their home or garage. The winner will receive a certificate and \$100 cash award.

Student Name: Anne Mustin
School: Carver MST
Project Name: Cat Walk

Student Name: Adalynn Griffin
School: Clark-Shaw Magnet School
Project Name: The Beaver Dam Dilemma



Office of Academic Engagement, Innovation and Opportunity, College of Sciences and Mathematics at Auburn University
Spirit of Excellence Award

Special Award Description:

This award recognizes excellence in science research by a student. The winner will receive a certificate and \$100 cash award.

Student Name: Philip Madsen

School: Academy for Science & Foreign Language

Project Name: Bye Bye Blue Light

Department of Mathematics and Statistics at Auburn University
Talent in Mathematics and Statistics Award

Special Award Description:

This award recognizes a project, from any category, that demonstrates a strong mathematical and statistical analysis. The winner will receive a certificate and a \$100 cash award.

Student Name: Ritesh Babu

School: Auburn Jr. High School

Project Name: Oil-based recycling: A sustainable approach to Styrofoam disposal

Department of Aerospace Engineering at Auburn University
Future Rocket Scientist Award

Special Award Description:

This award recognizes high achievement in research related to Aerospace Engineering. The winner will receive a certificate and a \$100 cash award.

Student Name: Darshith Paturi

School: Alabama School of Fine Arts

Project Name: Does the number of parachutes and it's material affect the speed an object falls at.

Department of Biosystems Engineering at Auburn University
Biosystems Engineering Award

Special Award Description:

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 \$100 cash award.

Student Name: William Cross

School: Holy Spirit Catholic High School

Project Name: The Impact of Water Surface Area On Solar-Powered Desalination



Department of Chemical Engineering at Auburn University

Chemical Engineering Award

Special Award Description:

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.

Student Name: Khidr Kishan Budhwani
School: Alabama School of Fine Arts
Project Name: The Effect of Acidity on the Corrosion Rate

Department of Electrical and Computer Engineering at Auburn University

Electrical and Computer Engineering Award

Special Award Description:

This award is presented to an outstanding project in the Robotic Systems and Communication Technology category. The winner will receive a certificate and \$100 cash award.

Student Name: Kayden Barbour
School: Liberty Middle School
Project Name: Using Artificial Intelligence to Improve Music Practice

Auburn University Bee Center at Auburn University

Auburn University Bee Center Pollinator Stewardship Award

Special Award Description: This award recognizes projects that align with the AU-Bees mission of promoting honey bee, native bee, and other native pollinator communities. The winner will receive a certificate and \$100 cash award.

Student Name: Iris Piper
School: Clark-Shaw Magnet School
Project Name: Saving The Bees!

Edward Via College of Osteopathic Medicine (VCOM-Auburn)

Excellence in Medical Science Award

Special Award Description:

This award recognizes a project that shows great promise in the fields of Medicine, Health, and Translational Medical Science. The winner will receive a certificate and \$100 cash award.

Student Name: Shravan Balaji
School: Liberty Middle School
Project Name: Modeling Epilepsy using The Virtual Brain to Optimize Surgical Interventions



**Dean of the College of Sciences and Mathematics at Auburn University
Future Scientist or Mathematician Award**

Special Award Description:

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.

Student Name: Minlu Wang-He

School: Davidson Academy Online

Project Name: SoilXpert: An innovative tool for smart farming

**Dean of the Samuel Ginn College of Engineering at Auburn University
Outstanding Engineering Award**

Special Award Description:

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.

Student Name: Minlu Wang-He

School: Davidson Academy Online

Project Name: SoilXpert: An innovative tool for smart farming

**Dean of the College of Agriculture at Auburn University
Innovative Practices in Agriculture Award**

Special Award Description:

This cash prize of \$100 recognizes innovative research related to soil management, crop production, or water resources.

Student Name: Minlu Wang-He

School: Davidson Academy Online

Project Name: SoilXpert: An innovative tool for smart farming

**Dean of the College of Forestry, Wildlife and Environment at Auburn University
Excellence in Environmental Stewardship Award**

Special Award Description:

This award is presented to a student who has demonstrated outstanding commitment and innovative approaches to the conservation and management of natural resources, wildlife, or the environment. The winner will receive a certificate and \$100 cash award. The awardee will also receive the Ricoh Sustainable Development Award and trees planted on their behalf by One Tree Planted.

Student Name: Nathaniel Truitt

School: Clark-Shaw Magnet School

Project Name: Oysters: Nature's Nitrate Filter



Dean of the Harrison College of Pharmacy at Auburn University Medical Interventions Award

Special Award Description:

The Auburn University Harrison College of Pharmacy is providing a \$100 cash prize for a student whose project aims to improve human health and longevity by translating novel discoveries in the biomedical sciences into effective activities and tools for clinical and public health use.

Student Name: Winston Clifford
School: Hilltop Montessori School
Project Name: Nature's Pharmacy

Dean of the College of Veterinary Medicine at Auburn University Health and Wellness of Animals Award

Special Award Description:

The Auburn University College of Veterinary Medicine is providing a \$100 cash prize in recognition of one research project that shows the most promise for improving the health and well-being of agricultural or human companion animals.

Student Name: Justus Minnon
School: Libertas Classical Middle School
Project Name: Pawsome Protection: Testing Insulating Materials for Extreme Temperature Safety in Canine Paw Protection

Thermo Fisher Scientific Thermo Fisher Scientific Junior Inventors Challenge (JIC)

Special Award Description:

The Thermo Fisher Scientific Junior Inventors Challenge (JIC) is the nation's premier STEM research competition for 6th, 7th and 8th grade students. The top 10% of Junior Division students competing here today at ASEF have the honor of continuing their science fair journey by applying to compete in the Thermo Fisher Junior Inventors Challenge.

Student Name: Levi Johnson
School: East Samford School
Project Name: Which Temperature Allows the Bacteria to Grow the Best

Student Name: Ritesh Babu
School: Auburn Jr. High School
Project Name: Oil-based recycling: A sustainable approach to Styrofoam disposal

Student Name: Anne Mustin
School: Carver MST
Project Name: Cat Walk

Student Name: Gehad Khuzimy
School: Islamic Academy of Alabama
Project Name: Learn 2 Languages



Student Name: Adam Abu Qahouq, David DeLaire, Maxwell Snow
School: Tuscaloosa Magnet Schools - Middle
Project Name: How does color affect memory?

Student Name: Orlandria Stewart
School: Westlawn Middle School
Project Name: The Stroop Effect

Student Name: Devansh Goyal
School: Journey Middle School
Project Name: Obstacle-Detecting Glasses for Visually Impaired People

Student Name: Karthik Panchavati
School: Liberty Middle School
Project Name: Gut Wars : Comparing Probiotics In Yogurt Vs Probiotic Capsules

Student Name: Beverly David
School: Clark-Shaw Magnet School
Project Name: Acidic Water and plants

Category Awards Junior Divisions (grades 6-8)

1st place receives \$100 cash prize, certificate and ASEF medal
2nd place receives \$50 cash prize, certificate and ASEF medal
3rd place receives certificate and ASEF medal

0100 Animal and Plant Sciences Sponsored by the College of Agriculture at Auburn University

Beverly David
Project Name: Acidic Water and plants
Placement: 3rd Place
School: Clark-Shaw Magnet School

Justus Minnon
Project Name: Paw-some Protection: Testing Insulating Materials for Extreme Temperature Safety in Canine Paw Protection
Placement: 2nd Place
School: Libertas Classical Middle School

Harsha Bheemanathini
Project Name: The Effect of Nutrient Types on Planarian Survival and Regeneration
Placement: 1st Place
School: Alabama School of Fine Arts



0200 Behavioral & Social Sciences

Sponsored by the I-STEM Connectory at Auburn University

Leen Dabbous, Leen Mango

Project Name: Can You Hear Me?

Placement: 3rd Place

School: Islamic Academy of Alabama

Gehad Khuzimy

Project Name: Learn 2 Languages

Placement: 2nd Place

School: Islamic Academy of Alabama

Adam Abu Qahouq, Maxwell Snow, David DeLaire

Project Name: How does color affect memory?

Placement: 1st Place

School: Tuscaloosa Magnet Schools - Middle

0300 Cell, Molecular, Microbiology & Biochemistry,

Sponsored by the Southern Research

Levi Johnson

Project Name: Which Temperature Allows the Bacteria to Grow the Best

Placement: 3rd Place

School: East Samford School

Aaron Shoemaker

Project Name: Which Surfaces Have The Most Bacteria?

Placement: 2nd Place

School: Academy for Science & Foreign Language

Emmeline Moore

Project Name: Analyzing the effects of added vitamins on fungi populations

Placement: 1st Place

School: Alabama School of Fine Arts

0400 Chemistry

Sponsored by Aptar CSP Technologies

Ellis Howard

Project Name: Electrolyte Challenge

Placement: 3rd Place

School: Libertas Classical Middle School

Jessie Messer, Ali Goff-Scott

Project Name: How clean do your teeth get?

Placement: 2nd Place

School: Wetumpka Middle School



Odalys Garcia Godina

Project Name: Oh No My Hair!!!

Placement: 1st Place

School: Holy Spirit Catholic High School

0500 Engineering

Sponsored by the Samuel Ginn College of Engineering at Auburn University

Levi Lambert

Project Name: Filament Strength

Placement: 3rd Place

School: Academy for Science & Foreign Language

Cheyenne McCants

Project Name: How Far Wheel It Go?

Placement: 2nd Place

School: Clark-Shaw Magnet School

Benjamin Stringfellow

Project Name: A Helping Hand: Building a Nail/Screw Holder

Placement: 1st Place

School: Phillips Preparatory School

0600 Energy

Sponsored by the College of Sciences and Mathematics at Auburn University

Collin Darulla

Project Name: Can you take the heat?

Placement: 3rd Place

School: Providence Classical School (MS)

Darshith Paturi

Project Name: Does the number of parachutes and it's material affect the speed an object falls at.

Placement: 2nd Place

School: Alabama School of Fine Arts

Maryam Rasheed

Project Name: Power Impact

Placement: 1st Place

School: Islamic Academy of Alabama

0700 Earth and Environmental Sciences & Environmental Engineering

Sponsored by the College of Forestry, Wildlife and Environment at Auburn University

Christine White, Charlee Loomis

Project Name: How does surface temperature affect fingerprints?

Placement: 3rd Place

School: Vincent Middle High School



Anne Mustin

Project Name: Cat Walk

Placement: 2nd Place

School: Carver MST

Ritesh Babu

Project Name: Oil-based recycling: A sustainable approach to Styrofoam disposal

Placement: 1st Place

School: Auburn Jr. High School

0800 Biomedical Engineering & Biomedical and Health Sciences Sponsored by College of Veterinary Medicine at Auburn University

Hayley Phillips

Project Name: The Iron in Cereal

Placement: 3rd Place

School: Houston Academy

Orlandria Stewart

Project Name: The Stroop Effect

Placement: 2nd Place

School: Westlawn Middle School

Winston Clifford

Project Name: Nature's Pharmacy

Placement: 1st Place

School: Hilltop Montessori School

0900 Physics, Astronomy & Mathematics Sponsored by FTPP

Jonah Jeffreys

Project Name: My David

Placement: 3rd Place

School: Holy Spirit Catholic High School

Luke Buse

Project Name: White or Black: Which Absorbs More Heat?

Placement: 2nd Place

School: Libertas Classical Middle School

Anastasia Gleyzer

Project Name: Machine Learning for Heart Attacks

Placement: 1st Place

School: Northridge Middle School



1100 Robotic Systems & Communication Technology
Sponsored by NASA - Alabama Space Grant Consortium

Melody Kwarteng

Project Name: Obstacle detecting Smart Glasses for Visually impaired

Placement: 3rd Place

School: Oakwood Adventist Academy (MS)

Parker Leggett

Project Name: A Coding Vision

Placement: 2nd Place

School: Dothan Prep Academy

Devansh Goyal

Project Name: Obstacle-Detecting Glasses for Visually Impaired People

Placement: 1st Place

School: Journey Middle School

