

Northeast Florida

Division Grand Award Winner And First Place

Senior

Alan M Alwakeel	Stanton College Preparatory School	CMBI
S0418	The Virtual Cell: Revolutionizing Personalized Cancer Treatment Through AI-Powered Simulation	

First Place

Senior

Aghamarsh Mogallur	Stanton College Preparatory School	MACO
S1018	Prognosis of Market Trends Using Quantum and Hybrid Algorithms: QuantaBull, a Forecast Application	

Fourth Place

Junior

Mary G Bruemer	Saint Joseph Catholic School	CHEM
J0518	Which Weaving Pattern of Cotton-Blend Fabric Absorbs the Greatest Amount of Water	
Liza Kalitynska	Julia Landon College Preparatory Middle School	EAEV
J0625	Effects of Ocean Acidification on Marine Life	

Senior

Lilly J McCoy	Episcopal School of Jacksonville	ANIM
S0113	Effects of Magnetism on a Seizure Model of <i>Drosophila melanogaster</i>	
Christopher Trinidad	Bishop Kenny High School	BEHA
S0212	EPVR-AIM: Emotion Prediction and Virtual Reality AI Model	
Mahi Tol	Stanton College Preparatory School	BMED
S0327	Inhibition of PDAC Cell Proliferation in Presence of Radiosensitizer and CXCR4 Antagonist	
Christian Q Lee	Episcopal School of Jacksonville	CHEM
S0512	Analysis of Tooth Hardness of Potential Remineralizing Substances by Artificial Carious Lesions	
Natalie S Searl	Duncan U. Fletcher High School	EAEV
S0621	Evaluating the Efficacy of Vitamins in Mitigating Organophosphate-Induced Enzyme Disruption in Fish	
Natasha N Searl	Duncan U. Fletcher High School	EAEV
S0621	Evaluating the Efficacy of Vitamins in Mitigating Organophosphate-Induced Enzyme Disruption in Fish	
Viktoriia Galushchak	Bishop Kenny High School	IMRS
S0920	Adoption of Generative AI to Create Personalized Interactive Learning Experiences	
Payton F Marousky	Episcopal School of Jacksonville	MICR
S1116	Essential Oils and their Synergistic Effects on Antibiotic Resistant Bacteria	
Evelyn Carroll	Episcopal School of Jacksonville	PLNT
S1316	How LED Lighting Effects Hydroponic Growth of Kale	

Honorable Mention

Junior

Zoe Z Chong	Saint Joseph Catholic School	MACO
J1009	Can Generative Artificial Intelligence Detect the Difference Between Human and Other GenAI Content?	
Rachel A Patterson	Saint Joseph Catholic School	MICR
J1110	How Do Natural and Artificial Sweeteners Affect CO2 Production in <i>Saccharomyces cerevisiae</i> ?	

Senior

Emmanuelle Reign P Vinson	Sandalwood High School	BMED
S0329	Studying Differences in RNA Profiles Using Novel Long Read Sequencing Technology	
Ashley Wang	Stanton College Preparatory School	PHYS
S1221	Enhancing Electromechanical Performance Via Strain Engineering Modulation	
Blaire E Massey	Episcopal School of Jacksonville	PLNT
S1317	Effects of Oyster Shell Flour with Red Worms on Romaine Lettuce	

Recognition

Senior

Edgar A Morales	Episcopal School of Jacksonville	ANIM
S0114	Naringin and Rutin's Effects on Regeneration of <i>Planaria</i>	
Grace T Massey	Episcopal School of Jacksonville	BMED
S0325	Repeat Expansion Mutation Pathology of Poly-Glycine-Arginine in Alzheimer's Disease	

Second Place

Junior

Peter F Dulay	Julia Landon College Preparatory Middle School	BEHA
J0212	Career Bias in AI Data	
Lynn M Ibrahim	The Bolles School	CMBI
J0405	Sweet Showdown: How Sweet is Too Sweet in the U.S. vs. E.U.?	
Mithra Vasanthan	Julia Landon College Preparatory Middle School	EAEV
J0624	Sustainable Bioplastics: Formulation, Processing, Performance, and Environmental Impact	

Senior

Sarah C Park	The Bolles School	BMED
S0326	Year II Drug Discovery for CADASIL based on Human Induced Pluripotent Stem Cells (hiPSC)-derived Mural Cells	
Marco A Chua	Stanton College Preparatory School	ENEV
S0813	Enhancing Coastal Resilience Using Biomimetic Wave Barriers	
Elizabeth N Butterfield	Episcopal School of Jacksonville	ENEV
S0814	Using QGIS and Random Forest Regression to Predict Future Mangrove Locations in Northeast Florida	

Third Place

Senior

Annabel M Kaye	Stanton College Preparatory School	BMED
S0328	Can U7 snRNAs Correct Dysfunctional STMN2 Splicing in TDP-43 Depleted M17 Neuroblastoma Cells?	
Parthiv T Reddy	Episcopal School of Jacksonville	CMBI
S0420	Combined Inhibition of Metabolic Pathways In Renal Cancer Using Polymeric Nanoparticles	
Caden J Lipari	Episcopal School of Jacksonville	EAEV
S0620	Corals Prolonged and Controlled Heat Adaptation	
Alexander Chindris	Episcopal School of Jacksonville	ENMS
S0718	Multi UAV System for Wide Area Object Identification	
James C Steffes	Episcopal School of Jacksonville	ENMS
S0718	Multi UAV System for Wide Area Object Identification	
Arnav Khanolkar	Stanton College Preparatory School	MACO
S1019	Utilizing Mel-Frequency Cepstral Coefficients to Classify COVID-19 Cough through ML Classifiers	

Special Awards By Regions



70th Annual State Science and Engineering Fair

March 25-27, 2025

RP Funding Center, Lakeland

Northeast Florida

Behavioral & Social Sciences

Junior

J0212

Peter F Dulay

Julia Landon College Preparatory
Middle School

Mr. Stephen Nye

Certificate and Nomination Packet

Thermo Fisher Scientific Junior Innovators'
Challenge JIC

Cellular/Molecular Biology & Biochemistry

Junior

J0405

Lynn M Ibrahim

The Bolles School

Ms. Elizabeth Body

Certificate and Nomination Packet

Thermo Fisher Scientific Junior Innovators'
Challenge JIC

Senior

S0418

Alan M Alwakeel

Stanton College Preparatory School

Ms. Nicolle Arteaga

\$1000 Cash Award - Ying Scholar - All Expense
Paid Trip to Intel ISEF

Dr. Nelson Ying Scholars Grand Awards

Earth & Environmental Sciences

Junior

J0625

Liza Kalitynska

Julia Landon College Preparatory
Middle School

Mr. Stephen Nye

\$100 Cash Award

Florida Association for Water Quality Control

Certificate and honorary AWG membership

Association for Women Geoscientists
Foundation

J0624

Mithra Vasanthan

Julia Landon College Preparatory
Middle School

Mr. Stephen Nye

\$250 Gift Card

Florida Society of Environmental Analysts

Certificate and Nomination Packet

Thermo Fisher Scientific Junior Innovators'
Challenge JIC

Senior

S0620

Caden J Lipari

Episcopal School of Jacksonville

Mrs. Marion Zeiner

\$100 Cash Award

Sierra Club Florida – Cantwell Award

Engineering

Junior

J0719

Daniel A Serrano-Martinez

Saint Joseph Catholic School

Ms. Lizette Woodward

A \$25 Cash Award

Brevard: Mainland Regional Science and
Engineering Fair

Senior

S0718

Alexander Chindris; James C
Steffes

Episcopal School of Jacksonville

Mrs. Marion Zeiner

A NASA Certificate

NASA Kennedy Space Center

Environmental Engineering

Senior

S0813

Marco A Chua

Stanton College Preparatory School

Ms. Nicolle Arteaga

A Certificate

Stockholm Junior Water Prize*

Mathematics & Computational Sciences

Senior

S1017

Srikar S Kampalli

Stanton College Preparatory School

Ms. Nicolle Arteaga

\$50 Cash Award

St. Lucie Regional Science and Engineering
Fair

Microbiology

Senior

S1116

Payton F Marousky

Episcopal School of Jacksonville

Mrs. Marion Zeiner

\$350 Cash Award

Florida Association for Food Protection