

# Florida State Science & Engineering Fair

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April 2-4, 2024



# 2024 State Science Fair Participants

2 Junior Projects

7 Senior Projects

13 Total Students



# April 2-4

Students participate in the following:

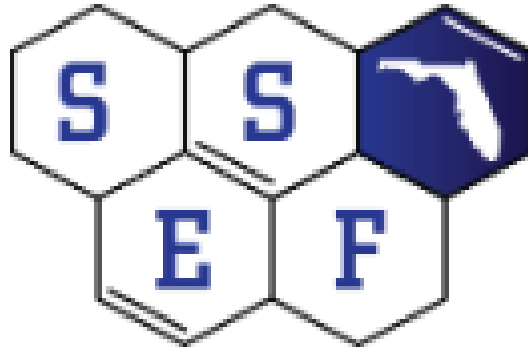
- Project SRC Approval
- Safety & Display Approval
- Full day of judging
- Student Mixer
- Grand Awards Ceremony



# Special Thanks to our Chaperones



- Leslee Bryan - District Science Specialist
- Bethany Derosie - Ridgeview High School Science Teacher
- William Derosie - Clay High School Science Teacher
- Michelle Hanson - School Board Member



# Sophie Aranaga OPJH

Biomedical & Health  
Sciences:

Got Insulin?



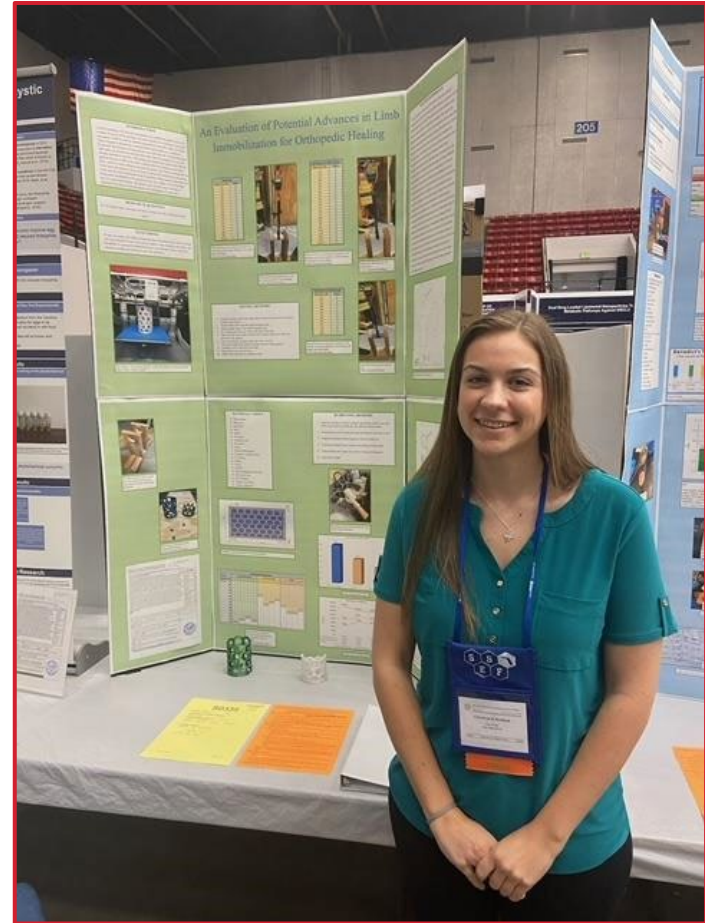
# Gracelynn Beckham

## CHS

Biomedical & Health  
Sciences:

An evaluation of potential  
advances in limb  
immobilization for  
orthopedic healing

2nd Place



# Saige Bialek, Emily McCrea, & Ciera Neal RHS

Engineering

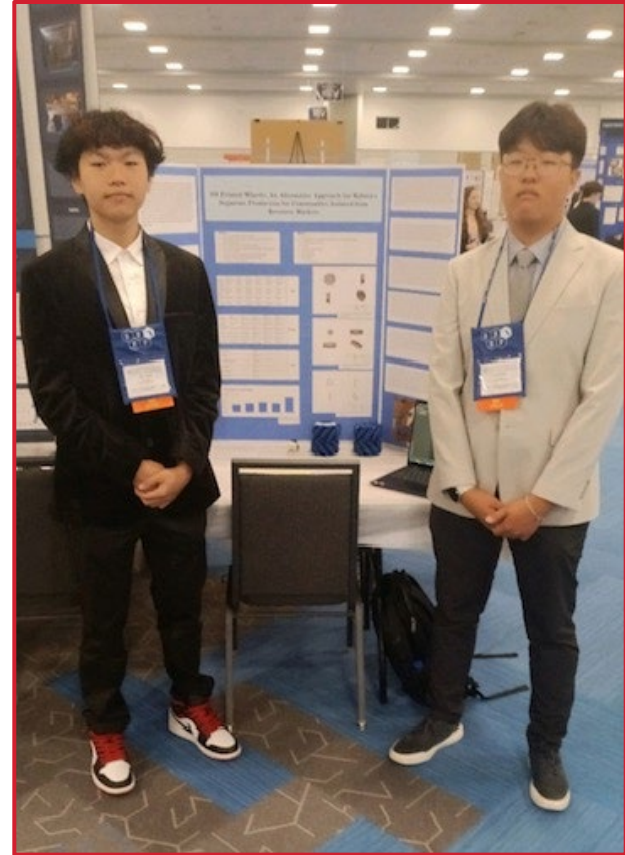
Protecting homes from  
wildfires: an analysis of  
thermal insulating  
materials in home  
construction



# Joshua Chun & Ricky Huang RHS

Intelligent Machines,  
Robotics, & Systems  
Software

3D printing wheels: an  
alternative approach for  
robotics segments  
production for communities  
isolated from resource  
markets





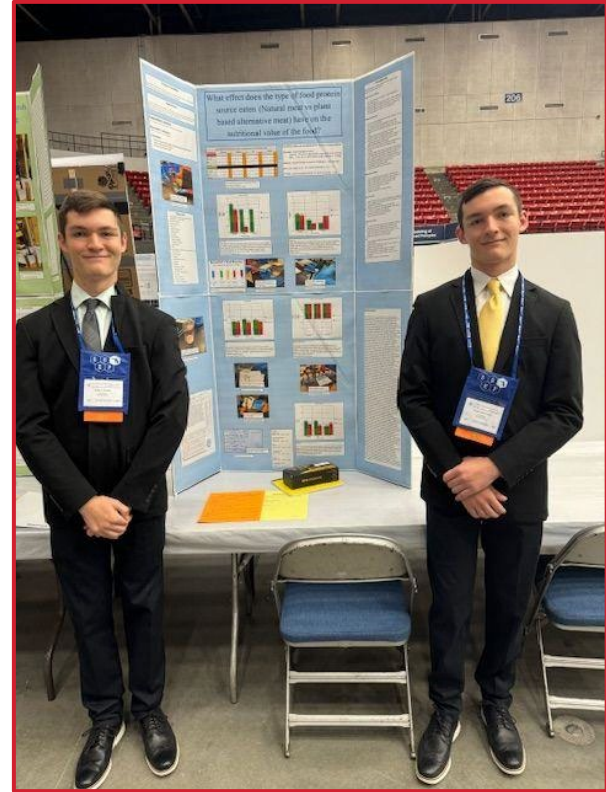
# James Fryman & Joseph Fryman CHS

Biomedical & Health Sciences

To what extent does the levels of protein, salt, pH, and glucose affect the true health factor of both plant-based meat products and how does it compare to actual meat products?

Martin STEM Award

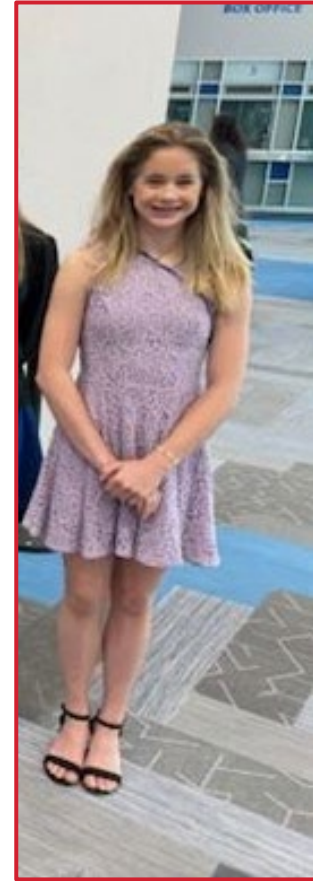
Joseph - \$20,000 scholarship to  
Florida Polytechnic University



# Scarlet Glover LAJH

Plant Sciences

The healing power of  
honey



# Alexander Gordon

## RHS

Intelligent Machines,  
Robotics, & Systems  
Software

Applying a simplified  
motion profiling  
algorithm to a target  
following arm with two  
degrees of freedom: a  
three year study



# Austin Hallett

## CHS

Physics & Astronomy

Ionic Wind: a novel approach for generating thrust utilizing electric-powered propulsion

Recognition Award in Physics



# Angel Zheng

## RHS

### Engineering

Waterproofing and experimentation of servo motors: obstructing water intrusion in the SG90 Servo Motor and Muizei 25KG Servomotor in submarine robotics needing to achieve angles of 90, 180, and 270 while utilizing programming language C and the Arduino programming integrated development environment running on a raspberry Pi

**\$20,000 scholarship for Florida Polytechnic University**

**Scholarship for 1/2 tuition for 4 years at Florida Institute of Technology**

**Honorable Mention in Engineering**

