2018 Central Sound Regional Science and Engineering Special Awards

Award Name	School	Project	Name
American Institute for Aeronautics and Astronautics	Tesla STEM Interlake Mountlake Terrace	Implementation of Gyroscopically Leveled Spherical Drones Optimized Through Neural Networks for Reconnaissance and Imaging of Martian Environments FARMING FROM THE SKY: Design, Fabrication and Testing of a Smart Precision Agriculture End-to-End System to Boost Global Food Security and Environmental Sustainability Analysis of the Effects of Vortex Generators on Airfoil Stall Angle and Drag Characteristics.	William Wang Veena Kollipara Mitchel Spino Andrew Younglove
Local American Chemical Society Chapter			To be published soon
American Meteorological Society	Tesla STEM Tesla STEM	The Application of Microwave Satellite Data to the Statistical Hurricane Intensity Prediction Scheme (SHIPS) Prediction of Wildfire Probability from Local Meteorological Data	Aashna Sheth Aakash Ramachandran
American Psychological Association		Transthesia	Jay Pierce

Association for Women Geoscientists	Tesla STEM	The Application of Microwave Satellite Data to the Statistical Hurricane Intensity Prediction Scheme (SHIPS)	Aashna Sheth
ASU Rob and Melani Walton Sustainability Solutions Initiatives	Tesla STEM Redmond	The Application of Infrared Thermography to Architecture to Identify Heat-Emitting Building Materials,An Environmental Education System to teach the importance and process to Reach A Net Zero House	Ritika Iyer Sai Jayanth Kalisi Arpit Ranasaria
BC foundation	Tesla STEM	Making Self-Regulation Tools Available to All Students	Samuel Thornton
Intel Excellence in Computer Science Award	Tesla STEM	MRI Multiple Sclerosis Lesion Segmentation using Deep Learning	Neha Hulkund
Mu Alpha Theta	Newport	Accurate and Early Detection of Metastatic Breast Cancer: A Deep Learning Analysis of Invasive Tissue Lesions in Multispectral Histopathological Images	Shifa Somji
NASA Earth System Science Award	Tesla STEM	The Study of Air Quality Conditions in Relation to Renal Transplantations Through a Data Analysis Approach	Emma Drapp Betty Park
NOAA - Taking the Pulse of the Planet Award	Interlake	Analyzing the Effects of Anthropogenic Pollution on the Net Primary Productivity of Oceanic Phytoplankton using Satellite Data and In Vitro Models	Sagarika Samavedi
Ricoh Sustainable Development Award	Interlake	FARMING FROM THE SKY: Design, Fabrication and Testing of a Smart Precision Agriculture End-to-End System to Boost Global Food Security and Environmental Sustainability	Veena Kolipara
Society for In Vitro Biology	Interlake	Analyzing the Effects of Anthropogenic Pollution on the Net Primary Productivity of Oceanic Phytoplankton using Satellite Data and In Vitro Models	Sagarika Samavedi

Stockholm Junior Water Prize	Interlake Mountlake Terrace	Analyzing the Effects of Anthropogenic Pollution on the Net Primary Productivity of Oceanic Phytoplankton using Satellite Data and In Vitro Models Gutter Water Runoff-based Pico Hydroelectric Generator	Sagarika Samavedi Isaac Hain Samuel Bowman
Best Data Visualization	Tesla STEM Tesla STEM Skyline	The Application of Microwave Satellite Data to the Statistical Hurricane Intensity Prediction Scheme (SHIPS) Perceived Credibility of Political Advertisements on Facebook Application of Random Forest Regression and Gauss-Markov Theorem in Two- Sensor Dead Reckoning	Aashna Sheth Claire Whiteside Neil Hazra
US Metric Association Award	Tesla STEM	Augmented Malleability in Pipeline Joints for Improved Resistance to Seismic Ground Forces	Niranjan Sahi Aditya Balasubramanian
wssef	Newport	Accurate and Early Detection of Metastatic Breast Cancer: A Deep Learning Analysis of Invasive Tissue Lesions in Multispectral Histopathological Images	Shifa Somji
Yale Science & Engineering Association	Redmond	SeeForMe: A Portable Low-cost Intelligent Computer Vision Device providing Predictive Safety Assistance for the Visually Impaired	Pranav Vaid