2016 Massachusetts State Middle School Science and Engineering Fair Winners

Grand Prize	Cabot Corporation, Broadcom Masters	Kieran Cullen	Hopkins Academy	A Machine Learning Based Algorithm for Identifying Phishing Websites
Grand Prize	Cabot Corporation, Broadcom Masters	Dylan Desrosiers	N. Attleboro Middle School	Efficiency of Turning PET and PP into 3D Printer Filament
1st Place	Sanofi Genzyme, Broadcom Masters	Abigail Moisan	Masconomet Regional Middle Schoo	Global Warming Melts Ice Cubes with Carbon
1st Place	Sanofi Genzyme, Broadcom Masters	Ananthan Sadagopan	Gibbons Middle School	Self Watering and Manually Watering Plants
1st Place	GEMS, Broadcom Masters	Minnah Sheikh	Rumney Marsh Academy	The Effect of Color on Temperature
1st Place	GEMS, Broadcom Masters	Jared Etienne	Foxborough Regional Charter School	Self Solving Rubik's Cube
1st Place	GEMS, Broadcom Masters	Lienna Peng	Boston Latin School	Maximization of Biofuel Yield from Seaweeds
1st Place	GEMS, Broadcom Masters	Francisco Coakley, Shoyaib Shaik	Ben Franklin Classical Charter Public	Inflatable High-Altitude Wind Turbine
1st Place	Pauline Lamarche, Broadcom Masters	Anvitha Addanki	Galvin Middle School	Smart Neuron
1st Place	Biogen Foundation, Broadcom Masters	Rahul Dasgupta, Oliver Fried, Varun Jayanti	Dover - Sherborn Middle School	Power Walk
1st Place	Biogen Foundation, Broadcom Masters	Marzuq Iqbal	Oak Middle School	The Internet of Things in Action
1st Place	Biogen Foundation, Broadcom Masters	Rianna Bottger	Oak Meadow School	Motor Madness
1st Place	Biogen Foundation, Broadcom Masters	Nadine Han	Boston Latin School	Determining Wildfire Risk Using Satellite Data
1st Place	Fisher Scientific, Broadcom Masters	Avery Clowes	Oak Meadow School	The Ion Enigma
2nd Place	Optical Society, Broadcom Masters	Claire Siegler	Andover School of Montessori	A Study on Handedness
2nd Place	Optical Society, Broadcom Masters	Aashiq Rayabarapu	Gibbons Middle School	Which Propeller Produces the Most Energy

2016 Massachusetts State Middle School Science and Engineering Fair Winners

2nd Place	Optical Society, Broadcom Masters	Kate Delaney	Newton Country Day School	Liquidy Split
2nd Place	Optical Society, Broadcom Masters	Aakash Sunkari	N. Attleboro Middle School	Build an Efficient Photobioreactor for Biochemical Change in Algae for Enhanced Biofuel and Fuel Cells
2nd Place	Optical Society, Broadcom Masters	Adway Wadekar	Gibbons Middle School	Common Core's Common Genres
2nd Place	Optical Society, Broadcom Masters	Christopher Hennessey, Caspian Chaharom	Oak Meadow School	V.C.A.S. (Vehicle Collision Avoidance System)
2nd Place	Optical Society, Broadcom Masters	Michael Adolphus, Brandon Barbosa, Christian Madrid	Garfield Middle School	The Levitating Train: The Future of Our World's
2nd Place	Optical Society, Broadcom Masters	Yuping Zhu	Andover School of Montessori	CO2mbat Climate Change: A Simulation Study
2nd Place	Optical Society, Broadcom Masters	Colton Rasmussen	Wareham Middle School	How Much Gas Does Your Favorite Beverage Have?
2nd Place	Optical Society, Broadcom Masters	Ridha Alam, Inayah Alam	Alhuda Academy	Modifying the Hydraulic Crane
2nd Place	Optical Society, Broadcom Masters	Ryan Levrault	Michael E. Smith Middle School	All Knotted Up
2nd Place	Optical Society	Nicole Sarmiento	Flagg Street School	Does the Battery Brand Affect the Velocity of a Robot?
2nd Place	Optical Society	Mihir Singh	Carlisle Public School	Swift Lift
2nd Place	Biogen Foundation	Cassandra O'Shea	Quaboag Regional Middle High Scho	The Toxin Sensors of Our Biological World
2nd Place	Biogen Foundation	Andrew Couture	Michael E. Smith Middle School	The Power of Magnetic Force
2nd Place	Biogen Foundation	Farrah Haytham	Alhuda Academy	Revolutionizing Learning
2nd Place	Biogen Foundation	Noah Perault	St. Agnes Academy	The Sugar Situation
2nd Place	Biogen Foundation	Neel Bhalla	William Diamond Middle School	Is There a Surgeon in the House? Telesurgery Robot Paging Remote Surgeon
2nd Place	Biogen Foundation	Amanda Wang	Carlisle Public School	Can a Smartphone Detect Adulterated Edible Oils?

2016 Massachusetts State Middle School Science and Engineering Fair Winners

2nd Place	Biogen Foundation	Michele Schremp	St. John the Evangelist	How the Angle of the Sun Affects Power Produced by Solar Cells
2nd Place	Biogen Foundation	Katy Waldman	Ben Franklin Classical Charter Public	Can You Train Yourself to Become Ambidextrous?
2nd Place	Biogen Foundation	Elan Peng	Curley K-8 School	Conversion of Fruit Waste to Biofuel
2nd Place	Biogen Foundation	Muneeb Syed	Alhuda Academy	I Can Sense You
3rd Place	Pearson Award	Rainy Wortelboer	Michael E. Smith Middle School	Take a Ride on the Marble Coaster: Test of Coefficient of Friction
3rd Place	Pearson & MA Sci Tech Award	Elvin Kadi	Worcester East Middle School	Temperature Impact on Barley Sprouting Stages
3rd Place	Pearson & MA Sci Tech Award	Katherine Asselin	Littleton Middle School	Can You Raed Tihs?
3rd Place	Pearson & MA Sci Tech Award	Omar Nayfeh, Noah Moselhy	Alhuda Academy	Hybrid Aircraft
3rd Place	Pearson & MA Sci Tech Award	Adelene Jeneid	St. Catherine of Siena School	Life on Mars?
3rd Place	Pearson & MA Sci Tech Award	Grace Leopold	Calvary Chapel Academy	The Seebeck Effect
3rd Place	Pearson & MA Sci Tech Award	Maya Sekhar	Michael Driscoll School	Smart Antibiotics, Designer Genes, and Proteins
3rd Place	Pearson & MA Sci Tech Award	Pratik Bharadwaj	YESC	Tennis Court Surfaces and Their Impact on Knee Injuries
3rd Place	Pearson & MA Sci Tech Award	Daniel Silva	Case Jr. High School	I Made a Pancreas
3rd Place	Pearson & MA Sci Tech Award	Garina Prabhakar	St. Bernadette School	Determining the Speed of Gravity Using Solar and Lunar Tidal Data
3rd Place	Pearson & MA Sci Tech Award	Ella White	Carlisle Public School	IPad Brightness
3rd Place	Pearson & MA Sci Tech Award	Raceja Velavan	St. Catherine of Siena School	Extracting DNA

2016 Massachusetts State Middle School Science and Engineering Fair Winners

3rd Place	Pearson & MA Sci Tech Award	Kamryn Li	Taunton High School	Vitamin C Content - Dark Vegetables vs. Light
3rd Place	Pearson & MA Sci Tech Award	Hirni Patel	N. Attleboro Middle School	Reaction Times
3rd Place	Pearson & MA Sci Tech Award	Teo Ruffin	Michael Driscoll School	Do Plants Use Electrical Signals When Exposed to Light?
3rd Place	Pearson & MA Sci Tech Award	Emma Polhemus	Bancroft School	Farm to Flashlight
3rd Place	Pearson & MA Sci Tech Award	Emma Nicholson	Ben Franklin Classical Charter Public	The Powerful Process of Peer Pressure
3rd Place	Pearson & MA Sci Tech Award	Riona Crowley, Amy Fam, Joanna Dakoyannis	Dover - Sherborn Middle School	Effects of Acid Rain on Plants
3rd Place	Pearson & MA Sci Tech Award	Katarzyna Wisnauckas	Hampshire Regional High School	How Bad Can Ultraviolet Rays Be?
3rd Place	Pearson & MA Sci Tech Award	Sullivan Barthel	Bancroft School	Banana Balooza!
3rd Place	Pearson & MA Sci Tech Award	Yassir Soukaki	Rumney Marsh Academy	The Improvement of the Foot Brace
3rd Place	Pearson & MA Sci Tech Award	Shriyaa Chittibabu	Oak Middle School	Using Dye Sensitized Solar Cells as Light Sensor
3rd Place	Pearson & MA Sci Tech Award	Kevin Cambell, Ben Canfield, Jason Frisoli	Littleton Middle School	Spoiler Alert
3rd Place	Pearson & MA Sci Tech Award	Samir Bonchaiba	Plouffe Academy	Testing the Extension of Wi-Fi Signal with Parabolic Antenna
3rd Place	Pearson & MA Sci Tech Award	Anderson Xia	Gibbons Middle School	The Ideal Metal for Construction in Wet Climates
3rd Place	Pearson & MA Sci Tech Award	Roisin O'Carroll	St. Catherine of Siena School	Erosion
3rd Place	Pearson & MA Sci Tech Award	Reilly Coleman	St. Catherine of Siena School	Soil vs. Hydroponics

2016 Massachusetts State Middle School Science and Engineering Fair Winners

3rd Place	Pearson & MA Sci Tech Award	Mason Willard	Hampshire Regional High School	Warming Up to Concrete
3rd Place	Pearson & MA Sci Tech Award	Trisha DiTomasso	McKay Arts Academy	Warmer Oceans: A Hurricane's Favorite Snack
3rd Place	Pearson & MA Sci Tech Award	Shakib Tidjani	Islamic Academy for Peace	Inattentional Blindness: The Impact of Perceptive Load and Age on Inattentional Blindness
3rd Place	Pearson & MA Sci Tech Award	Sophie Chabot	Andover School of Montessori	Chocolate Bonds
3rd Place	Pearson & MA Sci Tech Award	Kyle Garcia-Rogers	Andover School of Montessori	Bouncing Up to Your Potential
Honorable Mention		Aishani Pathak, Virginia Shea	Littleton Middle School	Solar Photobioreactor
Honorable Mention		Fransisco Alicandri	BART Charter Public School	Which Alloy Conductors Conduct the Best?
Honorable Mention		Clay Gensel	Ayer-Shirley Regional Middle School	Salt Effects on Plants
Honorable Mention		Carter Eaton, John Zavras	Dover - Sherborn Middle School	Harvesting the Sun: A Method to Enhance the Efficiency of Photovoltaic Panels
Honorable Mention		Elinor Rosen	Heath Middle School	Preventing Injuries from Falling Branches in Winter--Early Warning System
Honorable Mention		Mallika Chari	St. Michael School	How Does Temperature Affect the Flexibility of Rubber Bands
Honorable Mention		Elan Rosen	Hopkinton Middle School	Lighting Up Your Escape
Honorable Mention		Pierce Sullivan	Bancroft School	Nautical Net Force
Honorable Mention		Shashank Jamale	Locke Middle School	Thermoelectrics: A Bright Energy Future
Honorable Mention		Kathleen Hendriks	Academy of Notre Dame	The Effects of Magnetic Fields on an Aquatic Ecosystem
Honorable Mention		Kara Koska	All Saints Catholic School	How To Use Microbial Fuel Cells To Make Electricity from Waste
Honorable Mention		Sneha Jaiswal	Hopkinton Middle School	Brine to Beverage
Honorable Mention		Skylar Pemberton	N. Attleboro Middle School	Are People With Faces that Adhere to the Golden Ratio More Aesthetically Pleasing?

2016 Massachusetts State Middle School Science and Engineering Fair Winners

Honorable Mention	Clarise Liu	Sullivan Middle School	Let It Flow: The Study of Viscosity of Household Fluid
Honorable Mention	Evan Mills, Adyant Shankar	Academy of Notre Dame	My-Pass
Honorable Mention	Sriram Krishnamoorthy	Locke Middle School	Solar Powered Vehicles
Honorable Mention	Alessia Caira	Newton Country Day School	The Melt-Away
Honorable Mention	Margaret Gallagher	Bancroft School	How Bacteria Growth Is Affected by Temperature
Honorable Mention	Zoe Enos	St. Bernadette School	Will Yeast Grow in Sugar Substitutes
Honorable Mention	Lara Erdogus-Brady	Oak Meadow School	Allelopathy and Inuasiues: An Alternative Route to Eradication
Honorable Mention	Hayden Groh, Charlie Reitz	Warren Prescott K-8 School	Which Soda Is Worst for Your Teeth?
Honorable Mention	Cleo Baldoumas	Carlisle Public School	All Appboard the School Bus
Honorable Mention	Henry Siegal	Gibbons Middle School	Sun Protection vs. Environmental Protection
Honorable Mention	Nicholas Alibozek, Emily Godfred, Sydri Jamnos	Hoosac Valley Middle & High School	Hoverboard
Honorable Mention	Aarohi Goel	Carlisle Public School	Worth Its Amps in Salt
Honorable Mention	Abigail Connon, Elizabeth Hoppe	Newton Country Day School	When Bread Gets Mold, Will it Grow Mold?
Honorable Mention	Emma Pimentel	St. Joseph School	Are You Kidney-ing Me?
Honorable Mention	Kendra Smith	Michael E. Smith Middle School	Too Much of a Sweet Thing: The Effects of Artificial Sweeteners on the Growth of Drosophila melanogaster
Honorable Mention	John Coughlin	St. Catherine of Siena School	Water Power
Honorable Mention	Aditi Rathor	N. Attleboro Middle School	Does Room Temperature Affect the Pitch of a Note on a Metal Flute?
Honorable Mention	Clara Moulin	Bancroft School	The Sugar Rush
Honorable Mention	Sajed Ziade	Alhuda Academy	Water from Air
Honorable Mention	Grace Bizup	Newton Country Day School	Have a Seat: Keeping Babies Safe
Honorable Mention	Colin Lapus	St. Paul's Choir School	Age and Short-Term Memory
Honorable Mention	Shruti Srinivasan	N. Attleboro Middle School	Snow Much Fun

2016 Massachusetts State Middle School Science and Engineering Fair Winners

Honorable Mention	Emma Kotelnicki	St. Agnes Academy	Do You See What I See?
Honorable Mention	Emma Civello	Hampshire Regional High School	A Solution for Sweaty Sketches
Honorable Mention	Morgan Lance	Littleton Middle School	Bioplastics That Dissolve in Ocean Water?
Honorable Mention	Zoe Rudnick	Oak Middle School	Crash Test: Effect of Vehicle Size on Vehicular Damage in a Head-on Collision
Honorable Mention	Ruth Shiferaw, Gabriella Troy, Laura Wallace	Boston Latin School	Oxidation in Apples
Honorable Mention	Alyssa Lahaise	St. Catherine of Siena School	Wind Turbines