



Index of the National Gallery for America's Young Inventors™

Year Inducted	Inventor	Age	Team?	State	Title of Invention
1996	Alexia Abernathy	Age 15		Iowa	The Oops! Proof No-Spill Feeding Bowl
1996	Johnny Bodylski	Age 10		California	The Rain Watchdog
1996	Christopher Cho	Age 18		New York	Automated Page-Replacing Device
1996	Peter Haugen	Age 16		North Dakota	Interfaceable Refreshable Braille Display Prototype
1996	Kara Levine	Age 18		Florida	Karink (Eco Friendly Ink for Newspapers)
1996	Elizabeth Nathan	Age 18	Team	New York	Non-Reusable Syringe
1996	Gabriella Pollack	Age 18	Team	New York	Non-Reusable Syringe
1997	Mana Golzari	Age 18		Florida	Automatic Plankton UV Reflector
1997	Ian S. Hagemann	Age 17		Virginia	Portable Vision Field Analyzer
1997	Great T. Tseng	Age 16		Virginia	Fiber Optic Evanescent Wave Ion Sensor
1997	Dorothy Weiss	Age 17		New York	The Safe Stepper
1997	Daniel P. Weitz	Age 17		New York	Enhancing Fusion by Responsive Magnetic Confinement
1998	Adam E. Cohen	Age 17		New York	The Electrochemical Paintbrush
1998	Jeremy J. Kiser	Age 17		Ohio	The Guardian Angel (Warning System for Trains)
1998	Ariel Krasik-Geiger	Age 12		Washington	Calibrated Angle and Depth Scissors

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1998	Karen Mendelson	Age 16		MA	Inexpensive Fast Optical Method for Measuring Carbon Monoxide in Whole Blood
1998	Brian Schreyer	Age 17		New Jersey	E.T.S. (Emergency Traffic Signal)
1998	Brandon A. Whale	Age 8		Pennsylvania	PaceMate
1999	Richard J. Barton	Age 19		Maryland	Lapatron – Submersible Digital Lap Counter/Timer for Swimmers
1999	Joseph Heremans	Age 17		Michigan	A Thermoelectric Relative Humidity Meter
1999	Jeffrey S. Martzall	Age 17		Indiana	Two-Dimensional Audio Tracking for Animation Guidance Systems
1999	Austin S. Meggitt	Age 11		Ohio	Glove and Battie Caddie
1999	Joseph Schuh	Age 19		Florida	Universal Self-Contained Fiber Optic Sensor Network
1999	Alexander Wissner-Gross	Age 17		New York	Fullerene-Based Nanofabrication System
2000	Edward T. Gemin	Age 17		Ohio	Heat Energy Recovery System
2000	Ryan Kingsbury	Age 18		Florida	Thermoelectric-Based Liquid-Cooled Personal Computer
2000	Ann Lai	Age 16		Ohio	Micro-Sensors for Monitoring Sulfur Dioxide Emissions
2000	Joseph E. Pechter	Age 18	Team	Florida	Hybrid Text to Speech 2000
2000	William H. Pechter	Age 18	Team	Florida	Hybrid Text to Speech 2000
2000	Naveen Neil Sinha	Age 15		New Mexico	Multi-Purpose Non-Invasive Sensor for Monitoring Contents Inside Closed Containers
2000	Spencer Rocco	Age 8		Pennsylvania	KidKare Hospital Equipment
2001	Christina Adams	Age 16		Oklahoma	Vapor Exchange/Pressure Control Wheelchair Seat
2001	Lindsey Clement	Age 12		Texas	Gumball Machine
2001	Hans Lee	Age 18		California	Creative Spin Control: the Next Step After Anti-Lock Brakes

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2001	Elina	Onitskansky	Age 17		Ohio	Micro-electrochemical Sensor and Plating System
2001	Kavita	Shukla	Age 16		Maryland	Botanical Extract-Coated Material for the Preservation of Perishable Substances
2001	Rishi	Vasudeva	Age 18		Georgia	Biodegradable Disposable Diaper
2002	Anthony	Jarecki	Age 12		Nebraska	Easy Lift Trash Can
2002	Gabe	Klapman	Age 18	Team	California	The Big Array System
2002	Peter	Lee	Age 17	Team	California	The Big Array System
2002	Ryan	Patterson	Age 19		Colorado	The American Sign Language Translator
2002	Ezra	Rapoport	Age 18		New York	Speech Compression Engine Based on Principal Analysis
2002	Harris	Sokoloff	Age 18		New Jersey	Headphone Emergency Alert Defense System
2002	Lisa Marie	Wright	Age 15		Ohio	Auto-Off Candle
2003	Allan	Chu	Age 18		California	LZAC Lossless Data Compression: A Novel Approach to Minimum Redundancy Coding
2003	Tessanie	Marek	Age 11		Texas	The Easy Crutches
2003	Mark	Mazumder	Age 18		Arkansas	Encased Stent for Rapid Endothelialization for Preventing Restenosis
2003	Brandon	Palmen	Age 19		Minnesota	Efficient Re-Targeting of Virus Vectors for Gene Therapy
2003	Justin	Riebeling	Age 13		Illinois	Speed Grain Cart
2004	Hyeyeon	Choi	Age 19		New York	The Effect of Supercritical Fluids on Polymer Thin Films
2004	Joline	Fan	Age 16		Ohio	Microbubble Drag Reduction & Acoustic Heat Transfer Enhancement of Drag Reducing Surfactants
2004	Elena Leah	Glassman	Age 17		Pennsylvania	Brain-Computer Interface for the Muscularly Disabled
2004	Vishali Krian	Grover	Age 16		Florida	Environmentally-Friendly Enzyme Based Antifouling Paint

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2004	Chandler	Macochoa	Age 14		Michigan	Wheelchair Backpack Helper
2004	Sean Kshitij	Mehra	Age 17	Team	New York	Using Nanoparticles to Enhance Polymer Properties for improved Commercial Applications: Space Lubricants to Nanolithography
2004	Jeffrey	Reitman	Age 17	Team	New York	Using Nanoparticles to Enhance Polymer Properties for Improved Commercial Applications: Space Lubricants to Nanolithography
2005	Andrew	Deagon	Age 18	Team	California	Di-Conical Contracting Actuator
2005	Mitchell	Fourman	Age 17		New York	A Novel Procedure for Creating High Performance PMMA-EVA Polymer Blends Using Supercritical Carbon Dioxide
2005	Steven	Frehn	Age 18	Team	California	Di-Conical Contracting Actuator
2005	Allyson	Ho	Age 16	Team	Texas	The Effects of Nanoparticles on Selective Gas Permeability of Thin Film Membranes Using Supercritical Fluid
2005	Yunchao (Susan)	Lou	Age 16		Michigan	Alarm Triggered Shut off Appliance System (ATSAS)
2005	David	Meigooni	Age 17		Kentucky	A Novel Method for Enhancing Prostate Cancer Radiosensitization by Natural Compound Curcumin
2005	Arpan	Satsangi	Age 17		Texas	Optimization of Biomimetic Osteoblast Response on Phospholipid Modified Implant Surface for Bone Regeneration
2005	Alex	Thachara	Age 17	Team	New York	The Effects of Nanoparticles on Selective Gas Permeability of Thin Film Membranes Using Supercritical Fluid
2006	Stanley	Chiang	Age 18		New York	Fabrication of Novel Superconducting Josephson Junctions to Couple Multiple Flux States of a Quantum Bit
2006	Amardeep	Grewal	Age 16	Team	Michigan	A New Spin on Wound Healing Scaffolds: Optimization Through Molecular and Physical Design
2006	Ryan Marques	Harrison	Age 18		Maryland	A Novel Approach to Modeling pH-sensitive Regions within Proteins

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2006	Ran	Li	Age 17	Team	New York	A New Spin on Wound Healing Scaffolds: Optimization Through Molecular and Physical Design
2006	Michael	Pizer	Age 17		Wisconsin	Consumable Oil Encapsulated Spheroids (COES): A Novel Depth-specific Chemical Delivery System
2007	Alexandra	Courtis	Age 17		California	Bright Luminescent Silicon Nanoparticles for Biological Applications
2007	Anup	Myneni	Age 17	Team	Virginia	Lucerne Hay as a Riparian Buffer Zone Component for Nitrate Sequestration Biofiltration & Environmental Stability
2007	Ananth	Ram	Ages 17	Team	Texas	A Novel Control Algorithm for Regulating the Tinting of Electrochromic Windows
2007	Gabrielle Marie	Strike	Age 17	Team	Virginia	Lucerne Hay as a Riparian Buffer Zone Component for Nitrate Sequestration Biofiltration & Environmental Stability
2007	Micah L.	Toll	Age 18		Pennsylvania	A New Technology for Portable Constructional Elements and Their Production and Use as a Comprehensive Solution System to Improve Disaster Response Relief and Recovery Efforts in War-torn Areas
2007	Arun	Venkatraman	Age 17	Team	Texas	A Novel Control Algorithm for Regulating the Tinting of Electrochromic Windows
2008	Alexandra	Crook	Age 19		Utah	An Inexpensive Microgravity Environment
2008	Shiv	Gaglani	Age 19		Florida	A Novel Rapid Prototyping Approach to Tissue Engineering
2008	Kaileigh	Kirton	Age 11		Florida	The Sifting Shovel
2008	Michael	Loy	Age 18		Oregon	Developing a Novel pH Buffer Methodology to Inhibit Concrete Corrosion
2008	Theresa	Oei	Age 15		Connecticut	Use of Seashells to Detoxify Lead-Contaminated Effluent and Groundwater
2009	Andrew K.	Miller	Age 19		North Carolina	Optimizing Turbine Blade Efficiency by Manipulating Boundary Layer Separation

Year Inducted	Inventor		Age	Team?	State	Title of Invention
2009	Preya	Shah	Age 18		New York	Combating Cancer: Design and Synthesis of Dual Warhead Tumor-Targeting Drug Conjugates
2009	Benjamin	Song	Age 17	Team	Pennsylvania	Development of a Urine Test for the Early Detection of Cancer
2009	Janet	Song	Age 18	Team	Pennsylvania	Development of a Urine Test for the Early Detection of Cancer
2009	Sophie M.	Swingle	Age 17		New Mexico	ULF Communications-Reaching the Surface a Device for Transmitting Through the Earth
2009	Tharon	Trujillo	Age 13		California	Lock-n-Block Sliding Door Safety Gate
2009	Michael	Vawter	Age 18	Team	Ohio	The Nano-Mist: Closed-Loop Diabetes Management through Liposome Nanoencapsulation
2009	Michelle	Vawter	Age 15	Team	Ohio	The Nano-Mist: Closed-Loop Diabetes Management through Liposome Nanoencapsulation
2009	Mark	Wright	Age 15	Team	Ohio	The Nano-Mist: Closed-Loop Diabetes Management through Liposome Nanoencapsulation
2010	Katherine	Bomkamp	Age 18		Maryland	The Pain Free Socket: Incorporating Thermal Biofeedback into Prosthetics to Eliminate Phantom Pain in Amputees
2010	Audrey	Leasure	Age 17	Team	Florida	An Electroless Intermetallic Coating
2010	Anirudh	Mohan	Age 18		Virginia	Synthesis and Characterization of Biomarker-Harvesting Hydrogel Nanoparticles
2010	Gavin G.	Ovsak	Age 17		Minnesota	The CHAD (Circuit Head Accessibility Device)
2010	Gennifer	Rubin	Age 17	Team	Florida	An Electroless Intermetallic Coating
2011	David Alexandre Joseph	Campeau	Age 16		Minnesota	Brain Computer Interface
2011	Riley Charles	Ennis	Age 18		Virginia	Innovative Cancer Vaccine
2011	Alexander Prodomos	Gilbert	Age 17		Virginia	Improved Contrast in Magnetic Resonance Imaging (MRI) for More Accurate Medical Diagnoses

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2011	Siddhartha Gautama	Jena	Age 17		Michigan	Erythrocyte Dysfunction & Amelioration in Hypercholesterolemic Conditions
2011	Samantha Marie	Marquez	Age 15		Virginia	Celloidosomes® The Bioengineering of Artificial Glands & Bioreactors
2012	Nathan Sai	Kondamuri	Age 18		Indiana	The Efficient Creation of Electricity by Incorporating Elements of Photosynthesis into a Novel Solar Cell
2012	Caleb	Kumar	Age 16		Minnesota	Designing and Validating a Java Program to Diagnose Bladder Cancer
2012	Bridget	Oei	Age 17		Connecticut	Polyvinylidene Fluoride (PVDF) Piezoelectric Generator: A Novel Approach to Harvesting Vibrations from Human Respiration to Power Biological Implant Devices
2012	Wayne	Shu	Age 17	Team	Michigan	Micro-RNA-17-92 Cluster Mediates Sonic Hedgehog Induced Neurogenesis in Neural Stem Cells After Stroke
2012	Sara	Volz	Age 17		Colorado	Methods to Augment Algal Oil Yields for Biofuels
2012	Edgar	Wang	Age 18	Team	Michigan	Micro-RNA-17-92 Cluster Mediates Sonic Hedgehog Induced Neurogenesis in Neural Stem Cells After Stroke
2012	Andy	Ylitalo	Age 17		Minnesota	Windows of the Future: Saving Energy Year-Round
2012	Justin	Yuan	Age 18	Team	Michigan	Micro-RNA-17-92 Cluster Mediates Sonic Hedgehog Induced Neurogenesis in Neural Stem Cells After Stroke
2013	Jack	Andraka	Age 16		Maryland	A Novel Paper Sensor for the Detection of Pancreatic Cancer
2013	Meredith	Barr	Age 17		Pennsylvania	A Novel Biodiesel Processor that More Than Doubles the Energy of Biodiesel Production
2013	Rohan	Palanki	Age 17		Alabama	Low-Cost Biomedical Device for Detecting & Evaluating Breathing Disorders
2013	Roma Vivek	Pradhan	Age 17		Texas	Train the Artificial Brain Diagnosis of Brain Tumors Using Neural Network
2013	Nathaniel	Varghese	Age 16		California	A Robust Human Fall Detection Wireless System

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2013	Emily S.	Wang	Age 17		California	A New Light in Biosensing: Engineering a Bright and Photostable Green Fluorescent Protein Mutant for Fluorescence Resonance Energy Transfer (FRET)
2014	Joshua	Abreo	Age 17		Alabama	A Novel Antimicrobial Polymer Coating for Biomedical Applications
2014	Raghav	Ganesh	Age 12		California	A Cane That Can See: A low cost, adoptable, user-tested, add-on device for the white cane that facilitates safer mobility for the visually challenged
2014	Aditya	Jain	Age 14		Oregon	It's a Matter of Life & Breath: An Improved Automated Tool for Lung Cancer Pulmonary Nodule Detection
2014	Andrew	Jin	Age 17	Team	California	Novel Computational Framework for the Discovery of Synergistic Chemotherapy Combinations
2014	Loren	Newton	Age 17		California	A Novel Approach to Capture Wingtip Vortices
2014	Maya	Varma	Age 16		California	Arduino-based Foot Neuropathy Analyzer
2014	Steven	Wang	Age 17	Team	California	Novel Computational Framework for the Discovery of Synergistic Chemotherapy Combinations
2015	Arjun Jay	Arora	Age 17		North Carolina	Quantitative Analysis & Targeting of Inflammatory Breast Cancer Tumor Emboli
2015	Emily Lorin	Ashkin	Age 18		North Carolina	A Novel Synergistic Method for Enhancing Immunotherapy in the Treatment of Melanoma
2015	Clemen Zineng	Deng	Age 18		Oregon	WHAIVE: a Novel Machine Learning Method for More Accurate Breast Cancer Detection
2015	Makayla	Gates	Age 13		New Mexico	Sassy Sound Solar Cleaner
2015	Mark D.	Leschinsky	Age 9		New Jersey	Self-Disinfecting Hazmat Suit for Healthcare Workers
2015	Michelle M.	Marquez	Age 16		Virginia	The Mapping of Emotional Dimensions toward a Neuro-Thermal Biometric System for the Diagnosis of Emotional Flexibility

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2016	Gary A. Leschinsky	Age 8		New Jersey	A-Watch for Allergies: A Novel System for Early Detection, Notification, and Management of a Possible Allergic Reaction
2016	Sydney L. Marler	Age 16		California	Phosphorene Based Nanodevices for Ultrafast Energy Harvesting and Next Generation Electronics
2016	Sally Nijim	Age 18		Illinois	A Novel MerTK Nuclear Pathway Utilized as a Target in the Reduction of Cancerous Tumor Growth and the Circumvention of Traditional Inhibitor Resistance
2016	Pranshu Suri	Age 16		Pennsylvania	Braille Alphabet Learning Assistant
2016	Kimberly Alexis Te	Age 18		New York	Natural, Cost-Effective Anodes for Optimized Sediment Microbial Fuel Cells: Engineering a Novel Approach to Harvesting Energy and Cleaning Up Oil-Polluted Regions
2016	Max Ylitalo	Age 18		Minnesota	Energy Production from Waste Reduction
2017	Joshua Dong	Age 18		California	Engineering a Laser Technique to 3D Print Mechanically Robust Hydrogels for Extracellular Matrices
2017	Grace Hu	Age 18		New York	Multifunctional NGF-Au-SPIC Nanoparticles
2017	Annie Ostojic	Age 15		Indiana	Recycling Energy & Reducing Solid Waste: A Novel Battery-Charging Device with Optical Concentrator Reflector Design that Optimizes Indoor Energy Harvesting
2017	Syamantak Payra	Age 16		Texas	A Smart Bionic Leg Brace
2017	Scott Andrew Soifer	Age 17		New York	The Heat Free Car: Vehicular Heatstroke Prevention System (Second-Generation Prototype)
2017	Nicole Wojtania	Age 18		Texas	Cellulose Nanocrystals for Security Applications: Embedding Non-Optical Signatures Provided by Nanoparticles into Cellulose Nanocrystal Chiral Nematic Films
2018	Meghana Chowdary Bollimpalli	Age 17		Arkansas	Commercial Microwave Assisted Synthesis of a \$1 Electrode From Renewable Resources For Energy Storage Applications & Supercapacitors

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2018	Kaylee	Cunningham	Age 18		Florida	Ionizing Radiation Shielding Sports Bra
2018	Hiba	Hussain	Age 16		Connecticut	A Non-Invasive, Low-Cost Diagnosis Of Chronic Obstructive Pulmonary Disease (COPD) Via Smartphone Breath Analysis
2018	Raina	Jain	Age 15		Connecticut	Magnetically Induced, Visual Detection Of Trace Arsenic Contaminants In Water Using Fe ₃ O ₄ Photonic Crystal Structures
2018	Rachel	Li	Age 17		New York	Novel Gelatin & Pluronic F127 Hybrid Hydrogel As A Barrier Membrane For Guided Bone Regeneration Following Periodontitis
2018	Katherine	Tian	Age 17		California	Automated Clear Cell Carcinoma Grade Classification With Prognostic Significance
2019	Nadia	Ansari	Age 16		California	Systems And Methods For Providing Cold Laser Therapy To A Patient In A Hands-Free Manner
2019	Audrey	Bakerson	Age 18		Michigan	Non-Intrusive Antigen / Antibody Allergy Test
2019	Neel	Jain	Age 17	Team	Oregon	Skyhound: A Low-Cost 3D Printed Autonomous Wi-Fi Tracking Search Drone To Locate Missing Victims Of Natural Disasters
2019	Pooja	Jain	Age 19	Team	Pennsylvania	Skyhound: A Low-Cost 3D Printed Autonomous Wi-Fi Tracking Search Drone To Locate Missing Victims Of Natural Disasters
2019	Melanie	Quan	Age 17		California	Plastalgix: Developing A Sustainable Cycle Of Compostable And Water-Soluble Plastics Using Waste Products Of Algae-Based Biofuels
2019	Eshika	Saxena	Age 19		Washington	Hemacam: A Mobile Phone Microscopy System For Automated Screening Of Hematological Diseases Using Computer Vision Techniques And Convolutional Neural Networks
2019	Ashay	Shah	Age 19	Team	Texas	Optimizing Electrode Pores Utilizing The Immiscible Polymer Blend Pan-Ps For Low-Cost, High Energy Density, Wide Temperature Range Supercapacitors

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2019	Ashna	Shah	Age 19	Team	Texas	Optimizing Electrode Pores Utilizing The Immiscible Polymer Blend Pan-Ps For Low-Cost, High Energy Density, Wide Temperature Range Supercapacitors