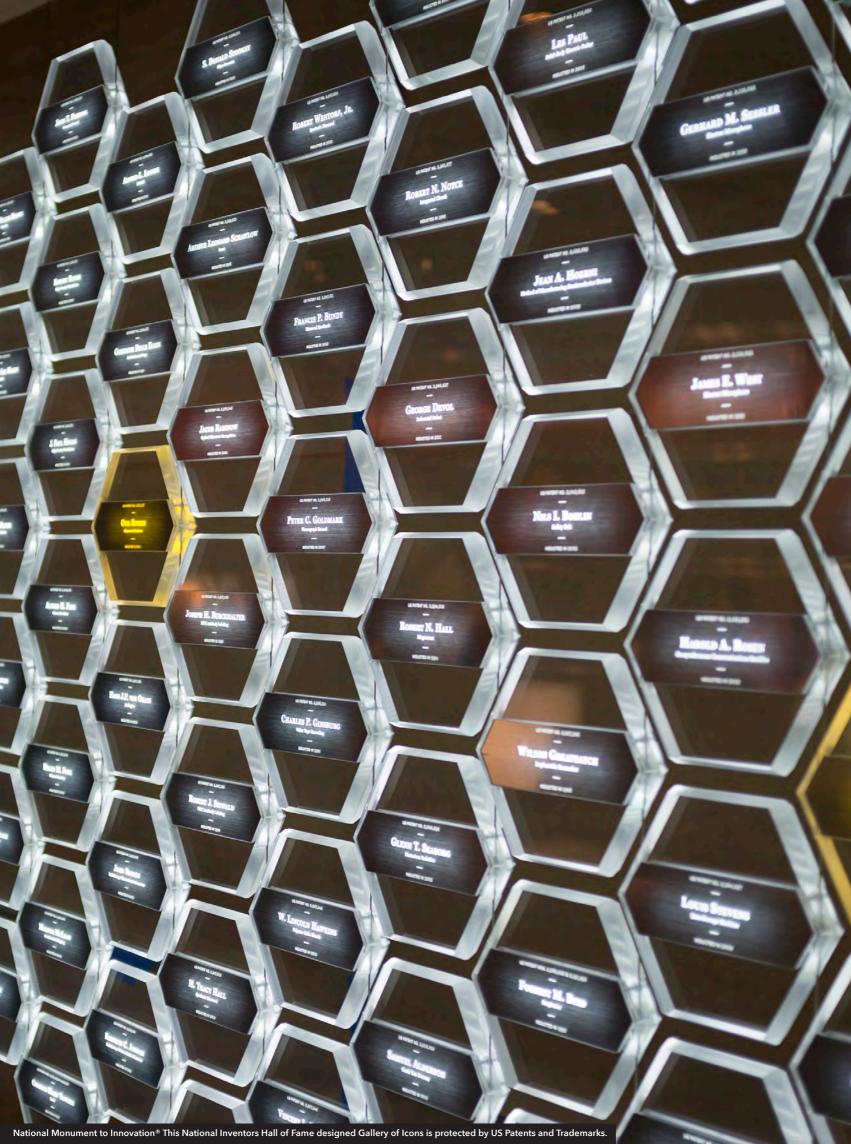


National Inventors Hall of Fame®







We believe our role as a Hall of Fame is to not only honor the individuals whose inventions have made the world a better place, but also to ensure that American ingenuity continues to thrive in the hands of coming generations. This belief is what drives our mission: to recognize inventors and invention, celebrate our country's rich innovative history, inspire creativity and advance the spirit of innovation and entrepreneurship.

True to our mission, we don't just talk the innovation talk, we walk the innovation walk. Beyond embodying and embracing the characteristics of a traditional Hall of Fame, we are reinventing what a Hall of Fame, a museum and even what a monument can be and do. Instead of being defined by the past, we invest in the future. Instead of being content as a static brick-and-mortar museum, we continue to push the limits and challenge ourselves to be a dynamic monument that comes to life in classrooms, curricula and competitions throughout the country.

In partnership with over 2,600 schools and districts nationwide, we connect inventors to creative minds of all ages to provide these future leaders with the experiences and tools they need to help them realize their innovative potential.

We are the National Inventors Hall of Fame: the driving force behind lifelong innovation, paying forward America's rich history of invention and securing our country's competitive advantage for the future.

Honoring inventors.
Inspiring creativity.
Challenging the next generation.



The National Inventors Hall of Fame's Innovation Ecosystem

Our Approach to Cultivating Innovation in the World Around Us

The National Inventors Hall of Fame is the expert on innovation. We create the best STEM programming because we are the only organization with a direct connection to insights from world-changing inventors. We have built an Innovation Ecosystem to introduce children to the innovation process early on and continue developing that curious spirit throughout their adult life.

Innovation Is Our Foundation



 $\label{thm:continuous} \mbox{Victor Lawrence, inventor of Signal Processing, making a visit to Camp Invention.}$



 $\sf Eric$ R. Fossum, inventor of the CMOS Active Pixel Sensor Camera-on-a-Chip, making a visit to the NIHF STEM Middle School.



Radia Perlman, inventor of Robust Network Routing and Bridging, working with students at Camp Invention.



World-Changing Inventors





Steven Van Slyke, co-inventor of Organic Light-Emitting Diode (OLED), placing his hexagon into the Gallery of Icons™ at the 2018 National Inventors Hall of Fame Illumination Ceremony.



Sumita Mitra, inventor of Nanocomposite Dental Materials, giving her acceptance speech at the 2018 National Inventors Hall of Fame Induction Ceremony.



All National Inventors Hall of Fame Inductees in attendance at the 46th Annual Induction Ceremony.

"Curiosity and exploration are the essential starting points of innovation. We have to be able to cultivate that in ourselves and I try to do that in young children because that's where it starts."

-Sumita Mitra 2018 National Inventors Hall of Fame Inductee Nanocomposite Dental Materials

Honoring the Greatest Innovators

The National Inventors Hall of Fame was founded in 1973 in partnership with the United States Patent and Trademark Office to honor the individuals who conceived, patented and advanced the greatest technological achievements of our nation. Since then the organization has evolved to be the nation's leading nonprofit providing STEM and innovation-focused education programs, competitions and events. However, we continue to embody the traditional aspects of a Hall of Fame through our annual Induction Ceremony and museum space.

National Inventors Hall of Fame Museum

The National Inventors Hall of Fame Museum is the National Monument to Innovation* that includes unique exhibits and inspirational stories of America's greatest innovators.

Located on the campus of the United States Patent and Trademark Office headquarters in Alexandria, VA, the museum space enables visitors to explore the 562 Inductees and their technological achievements through interactive kiosks and exhibits. Museum exhibitions are regularly rotated out to highlight the current class of Inductees, and also includes various sponsored exhibits focused on the history and importance of intellectual property.

National Inventors Hall of Fame Induction Ceremony

The National Inventors Hall of Fame Induction Ceremony is our nation's Greatest Celebration of American Innovation*— annually honoring and celebrating the world's foremost inventors and their contributions to society. This reverent affair not only hails the outstanding achievements of United States patent holders, but also brings those men and women together with innovation leaders, members of the public and fellow innovators.

The National Inventors Hall of Fame maintains an annual tradition of selecting Inductees through a process that accepts nominations from all sources and relies on a panel of experts in the fields of science, technology, engineering and intellectual property to screen, vet and make final selections. The criterion for Induction into the Hall of Fame requires candidates to hold a United States patent that has contributed significantly to the nation's welfare and the advancement of science and useful arts.

"We recognize invention is much more than a eureka moment. Invention is a process that requires collaboration, hands-on application of STEM, creative problem solving, entrepreneurship and an understanding that moments of failure are necessary on the path to success. We are committed to introducing future generations to this process, so they can dream, design and invent what's next."

- Michael J. Oister, CEO, National Inventors Hall of Fame









Children collaborate in teams to develop a prototype in order to solve one of the many challenges provided at Camp Invention.

Inspiring Future Innovators

Inspired by the Inductees of the National Inventors Hall of Fame, our educational programs are designed to impact young minds through fun, hands-on activities infused with the spirit of innovation. Hosted annually by over 2,600 schools and districts nationwide, these immersive enrichment programs are led by local, certified educators and promote STEM concepts, Intellectual Property Literacy™ and 21st century skills such as critical thinking and creative problem solving.

Each program we offer embraces its own unique characteristics, but what ties them all together is an exciting environment with no wrong answers, a chance to brainstorm with peers and dynamic learning opportunities for all children to build confidence in the natural ability to dream and create.

*All of our educational programs qualify for Title I, Title II, Title III, 21st CCLC, Migrant Education and Early Learning Challenge funding as well as state and local district resource funding.

4 Pillars of Education



We foster 21st century competencies by presenting real-world challenges that promote the direct application of critical thinking and communication skills. Through the dynamic lens of innovation, children design prototypes, learn the value of intellectual property, entrepreneurship and much more.



Our programs are all-inclusive; we provide curricula, step-by-step instructions, full registration and promotional support, instructor training and program materials to ensure a seamless and consistent delivery in all settings.



Children explore Science, Technology, Engineering and Math (STEM) concepts via hands-on, creative problem-solving activities and project-based learning through interdisciplinary curricula. We inspire children to be curious about their world and prepare them for the future.



Our educational programs provide teachers with direct experience in how to integrate STEM content with inquiry-based and project-based learning, 21st century skills and creativity in the classroom. Instructors report transferring these strategies to inspire and motivate their day-to-day teaching in the classroom, enhancing student learning far beyond the summer months.

Preschool



- Introduces preschool children to foundational STEM concepts through interactive games and guided play.
- Focuses on hands-on learning that encourages children to build inventions and explore the world around them.
- Provides educators with ways to incorporate STEM learning in their dayto-day teaching by using lessons and strategies from NIHF Inductees.
- Creates open-ended exploration for preschoolers with expert and effective teacher instruction.
- Includes curriculum and materials that are age appropriate and designed to enhance a preschooler's innate creativity.

Grades K-6



- Exposes children to world-changing inventors in a relatable and fun way by engaging them with a superhero storyline.
- Presents children with real-world, hands-on challenges that emphasize STEM proficiencies, creative problem solving, collaboration and entrepreneurship through motivation.
- Provides teachers with new ways to incorporate STEM skills into their classrooms.
- Introduces new, cutting-edge curriculum each year to ensure that our new and returning participants have an engaging and memorable experience.
- Leads children through the process of invention and teaches them that failure is a necessary step on the path to success.

Grades 1-6



- Presents participants with fun challenges that emphasize STEM, creative problem solving, collaboration and entrepreneurship through innovation.
- Encourages children to design functional invention prototypes.
- Provides children with an in-depth knowledge of real inventors and their technologies.
- Engages participants in communication, observation, data collection and teamwork activities.

Grades 1-6



- Promotes children taking risks, building a tolerance for ambiguity and exploring who they are as a maker, inventor and innovator.
- Helps children to build a curious spirit for embracing experimentation and problem solving.
- Shows students the value of intellectual property and the importance of being an entrepreneur as they develop inventions, create marketing materials and present to mock investors.
- Enables participants to discover what it means to be an inventor by applying creativity, innovation, design engineering, design thinking and innovative prototyping.

Grades 6-9



- Promotes 21st century skills such as teamwork, communication and collaboration, as well as economic literacy, through engaging, hands-on challenges that merge invention and business concepts.
- Brings the wisdom, ingenuity and inspiration of Collegiate Inventors and NIHF Inductees into both the classroom and lives of the program participants.
- Gives students the opportunity to sketch, incubate, prototype, test, reflect and refine their ideas through activities that promote selfexpression and self-confidence.
- Provides an opportunity for middle schoolers to understand the value of their own and others' intellectual property, as well as how the United States' patent and trademark system fuels innovation.

Grades 7-9

Leaders-in-Training

- Instills valuable early 21st century leadership skills through our nationally renowned program, Camp Invention.
- Enables participants to put into practice their newly acquired leadership and teamwork skills, act as role models and learn to set and accomplish personal goals.
- Provides the unique opportunity to work with Camp Instructors and assist
 with daily activities while encouraging and inspiring children to push the
 limits of their imagination.

Grades 10-College

Leadership Interns

- Introduces formalized leadership training, fundamental entrepreneurship and intellectual property concepts and the opportunity to work with participants in our Camp Invention and Invention Project programs.
- Allows participants to experience National Inventors Hall of Fame Inductee-inspired challenges with their mentee groups and put their newly developed leadership skills into action.
- Enables participants to earn up to 40 volunteer hours that can aid graduation requirements, National Honor Society membership and college applications.

Educators

Professional Development

- Provides educators with practical, research-based strategies to bring innovation and creativity into their classrooms.
- Enhances educators' STEM knowledge and skills through engagement in scientific inquiry and the engineering design process.
- Develops educators' 21st century knowledge and skills in creativity, creative problem solving, innovation, teamwork, collaboration and entrepreneurial mindset.
- Offers a variety of delivery models to accomplish district teacher professional development goals, including effective strategies for developing creative challenges for students.

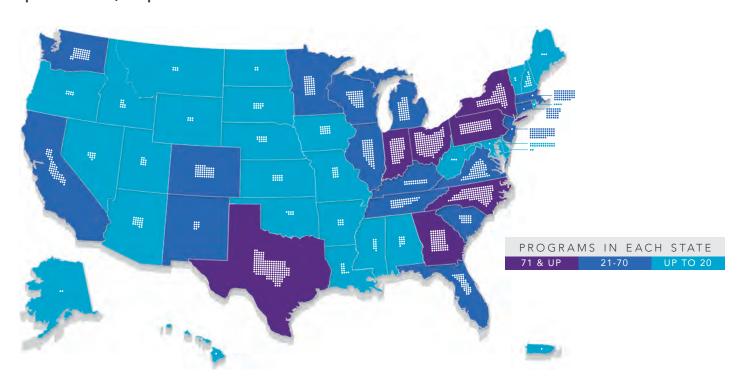
^{*} NOTE: This program is a part of Camp Invention.

^{*} NOTE: This program is a part of Invention Project and Camp Invention.



"This is STEM at its finest. We want students to be inquisitive and ask questions about nature and science. We want them to ask how things work and research how to solve problems and answer questions."

- Stephanie Sanders, Camp Invention Instructor











PARTNERED WITH 2,600 SCHOOLS & DISTRICTS



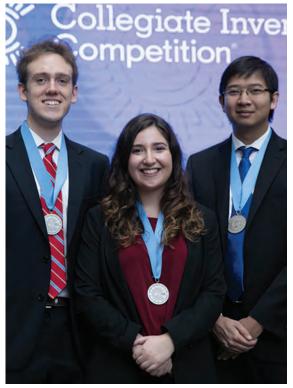


Praveen Majjigapu demonstrates how his patented NextGen Structural Rehab System works to strengthen buildings at the 2017 CIC Expo.

"One of the best parts in taking part in the Collegiate Inventors Competition is the group of peers that you are surrounded with. These are some of the most entrepreneurial, innovative, forward-thinking people you will ever meet. And the fact that you get to interact with the National Inventors Hall of Fame means that you get feedback from the people who have done this before. That sort of mentorship is what really helps you get to the end."

-Sarthak Srinivas, Georgia Institute of Technology, 2017 CIC Finalist





2017 Undergraduate Silver Winners Clayton Andrews, Talia Kirschbaum and Harrison Nguyen, Johns Hopkins University.



2017 Competition Finalists gather at the National Inventors Hall of Fame Museum to network and represent in their university gear.



Ning Mao, Boston University, receives mentorship from National Inventors Hall of Fame Inductee Ted Hoff, co-inventor of the Microprocessor

Challenging Today's Innovators!

The Collegiate Inventors Competition was founded in 1990 to encourage and drive innovation and entrepreneurship at the collegiate level. The Competition recognizes and awards students engaged in cutting-edge research and discovery. With the help of our sponsors, we have awarded over \$1 million to the country's most innovative collegiate students.

The Competition is marketed to faculty and students at over 1,000 colleges and universities across the nation. In 2018, the Competition received entries from colleges and universities including Case Western Reserve, Harvard, Johns Hopkins, MIT, The Ohio State University, Clemson University and UCLA. Entries include outstanding inventions in disciplines as varied as medical technology, biotechnology, nanotechnology, renewable energy, robotics and systems engineering.

Finalists gather at the United States Patent and Trademark Office (USPTO) headquarters to present their research and prototypes to the most influential innovators and invention experts in the nation – National Inventors Hall of Fame Inductees and USPTO experts. This panel not only judges the Finalists' entries, but also provides feedback, brainstorming and encouragement to take inventions to the next level. Competition Finalists also have the opportunity to showcase their inventions to program sponsors, media representatives and general public at the Competition Expo.



The Innovation Force

Who They Are and What They Represent

The National Inventors Hall of Fame is on a mission to bring innovation to the next generation. Research done by the Equality of Opportunity Project tells us that relatable exposure to innovation during early childhood has a significant effect on whether a child will become a successful inventor.¹ That's why we created the Innovation Force. This group of National Inventors Hall of Fame Inductees, turned action-packed superheroes, are mentors that children can identify with.

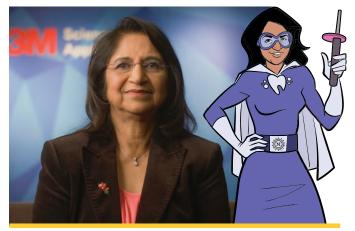
No matter your age, everyone benefits from having a positive role model. Because of this, all of our programs, from Camp Invention to the Collegiate Inventors Competition, integrate our Inductees. These visionary men and women have conceived, patented and advanced some of our nation's greatest technology. That's why they are superheroes!

My Innovation Icon

Our economy depends on innovation. We cannot let our children miss out on cultivating their curiosity and discovering their innovative potential. The objective of our Innovation Icon Initiative is to introduce and educate children about the inventors who have made a significant impact on our world, so they begin identifying these innovators as their role models. By 2020, our goal is to have 100 percent of our program participants name an inventor as their career role model.



Eric R. Fossum, 2011 National Inventors Hall of Fame Inductee, Inventor of the CMOS Active Pixel Image Sensor Camera-on-a-Chip.



Sumita Mitra, 2018 National Inventors Hall of Fame Inductee, Inventor of Nanocomposite Dental Materials.



Radia Perlman, 2016 National Inventors Hall of Fame Inductee, Inventor of the Robust Network Routing and Bridging.



George Alcorn, 2015 National Inventors Hall of Fame Inductee, Inventor of the X-Ray Spectrometer.

Thanks to Our Sponsors!



"The United States Patent and Trademark Office is proud to partner with the National Inventors Hall of Fame. NIHF's unique programs inspire creativity, innovation, interest in STEM and Intellectual Property Literacy® in students, teachers and aspiring inventors nationwide. Our joint effort and investment in the future of American innovation set the stage for a skilled, vibrant workforce pipeline and our country's future success."

- Andrei Iancu
 Under Secretary of Commerce for Intellectual Property and Director,
 United States Patent and Trademark Office

Below are a few of our 2,100+ sponsors. For a full list, please visit invent.org.























































NATIONAL INVENTORS HALL OF FAME*
ENDOWMENT
CHILDREN'S EDUCATION FUND

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"The National Inventors Hall of Fame's Pre-K through 12 educational programs and Collegiate Inventors Competition give us as Inductees the opportunity to inspire and challenge children and college students with the learnings we have gathered throughout our own careers as inventors. Developing future inventors, innovators, and entrepreneurs and instilling the core values of creative problem-solving sets the National Inventors Hall of Fame programs apart from the rest. Participants truly do leave with skills that will last a lifetime."

- Steve Sasson
2011 National Inventors Hall of Fame Inductee
and Inventor of the Digital Camera

