Congratulations on being awarded the 2021 Space Camp scholarship!

Each year, Fish & Richardson awards 33 students from across the United States to attend the U.S. Space & Rocket Center Space Camp in Huntsville, Alabama. Given your hard work and dedication to math and science, our attorneys have chosen you to attend this unique and rewarding learning opportunity.

Fish & Richardson’s Space Camp program has been part of our firm’s history since 1999. Our goal is to provide a hands-on learning opportunity for deserving students, like you! Students with a passion for science, technology, engineering, and mathematics (STEM).

Given the COVID-19 health crisis, Fish & Richardson made the difficult decision to cancel our travels to Huntsville, Alabama to attend the program in-person. Despite our difficult decision, we hope our Virtual Space Camp program provides you with a unique, engaging, and rewarding experience.

Throughout this program, you will have the opportunity to engage personally with astronauts, technologists, and Fish & Richardson’s attorneys. Questions throughout the program are welcomed and encouraged by all of our speakers.

We are excited to have you join our program this year and we hope you find it as fun as we do.

Congratulations on all of your academic achievements! Fish & Richardson is proud that you are a part of our history.

Sincerely,
Emma Eastham, Lauren McGovern, and Anaida Osipova
Fish & Richardson
MONDAY AUGUST 16, 2021

11:00 – 11:15 a.m.  
Matt Colvin | Welcome Remarks

11:15 a.m. – 12:00 p.m.  
Icebreakers + Breakout Rooms

12:00 – 12:45 p.m.  
Gitanjali Rao | Presentation + Q&A

12:45 – 1:00 p.m.  
Break

1:00 – 1:30 p.m.  
HawkEye360 + Jay Kugler DeYoung

1:30 – 2:15 p.m.  
Dover Space Suits

2:15 – 2:30 p.m.  
Break

2:30 – 3:30 p.m.  
Mike Massimino | Presentation + Q&A

3:30 – 3:45 p.m.  
Break

3:45 – 5:00 p.m.  
Boston Museum of Science + Interactive Activity

*All times listed in the agenda are in Eastern Standard Time.
TUESDAY AUGUST 17, 2021

11:00 a.m. – 12:00 p.m.: 
**Boston Museum of Science** Virtual Planetarium

12:00 – 12:15 p.m.: 
Break

12:45 – 1:00 p.m.: 
**SpaceX** + **Matt Colvin**

1:00 – 1:15 p.m.: 
Break

1:15 – 2:30 p.m.: 
**Blue Origin** + Activity

2:30 – 3:00 p.m.: 
Closing Remarks + Takeaways

*All times listed in the agenda are in Eastern Standard Time.
MIKE MASSIMINO

Mike Massimino is a former NASA Astronaut, a New York Times bestselling author, a Columbia University engineering professor, and an advisor at The Intrepid Sea, Air and Space Museum. A veteran of two space shuttle missions and four spacewalks, Mike was the first person to tweet from space, holds the team record for the most spacewalking time on a single space shuttle mission, and successfully completed the most complicated spacewalk ever attempted to repair the Hubble Space Telescope. Mike persisted through three rejections over 7 years on his way to becoming an astronaut, including overcoming a medical disqualification by training his eyes and brain to see better.

He has had a recurring role as himself on the CBS comedy “The Big Bang Theory,” is the host for the Science Channel Series “The Planets and Beyond,” was featured in National Geographic Television’s “One Strange Rock,” is a frequent expert guest on news programs, including Good Morning America, The Today Show, CNN, Fox News Channel, MSNBC, and CNBC, and has been called the real-life astronaut who inspired George Clooney’s role in the movie “Gravity.” He uses humor and his unique storytelling ability to inspire audiences to identify the passion in their work, to use teamwork and innovation to solve problems, to provide leadership in the face of adversity and crisis, and to never give up when pursuing a goal.
Gitanjali Rao was recognized as America’s Top Young Scientist and received an EPA Presidential award for inventing her device “Tethys”—an early lead detection tool. Gitanjali is also the inventor of “Epione”—a device for early diagnosis of prescription opioid addiction using genetic engineering, and “Kindly”—an anti-cyberbullying service using AI and Natural Language processing.

She was honored as Forbes “30 Under 30 in Science” in 2019 and TIME’s “Top Young Innovator” and “Kid of the Year” for her innovations and STEM workshops she conducts globally, which has inspired over thirty-eight thousand students in the last two years across four continents. In her sessions, she shares her own process of innovation that can be used by students all over the world. She is an experienced TED speaker and often presents in global and corporate forums on innovation and the importance of STEM.

Gitanjali has her new book “Young Innovator’s Guide to STEM”, which was released on March 16th which guides students, educators, or teachers with a prescribed 5 step innovation process.
Our next speaker is from HawkEye360. HawkEye360 is a Radio Frequency (RF) data analytics company. We operate a commercial satellite constellation to identify, process, and geolocate RF signals. We extract value from this unique data through proprietary algorithms, fusing it with other sources to create powerful analytical products that solve hard challenges for our global customers.

John Serafini has over a decade of experience investing in and leading national security oriented technology companies having founded and scaled ten such high growth start-ups in his career. John is presently the CEO of HawkEye 360, the leading developer of space-based radio frequency (RF) collection, mapping, and analytic capabilities. He previously served as Senior Vice President of Allied Minds where he led the formation, financing, and management of HawkEye 360, along with other Allied Minds companies such as BridgeSat, Federated Wireless, and Percipient Networks (WatchGuard acquired). A former Airborne Ranger-qualified U.S. Army infantry officer, John is a distinguished graduate of the US Military Academy and a graduate of the Harvard Business School and the Harvard Kennedy School of Government.

Speakers

Fish Virtual Space Camp 2021
DOVER SPACE SUITS

ILC Dover has been the primary supplier of spacesuits for NASA since the dawn of Apollo. In the 50 years since then we’ve strived for continuous innovation and improvement. NASA’s astronauts aboard the International Space Station are wearing ILC Dover spacesuits right now.

Legacy spacesuits, like the ones used in Apollo, were designed to accommodate operations both inside the safety of the spacecraft and outside in the harsh environments of space.

Continuing to push boundaries in space travel, our Astro™ EVA (Extravehicular Activity) spacesuit and Sol™ LEA (Launch, Entry and Abort) spacesuit are commercially available and purpose-built for comfort, mobility and reliability. Our advanced pressure suits have also been used to dive from near-space height (135,908ft) via a high-altitude balloon in the StratEx Program.

No matter the suit, no matter the purpose, ILC Dover has you covered.

Dan Klopp is a business leader with an extensive background in technology and strategic marketing. Dan holds a bachelor’s degree in Physics (with minors in Chemistry and Mathematics) from Millersville State University and a MBA from Duke University’s Fuqua School of Business. Additionally, he has done post graduate work in marketing theory at the University of Pennsylvania’s Wharton School of Business. Dan has worked in marketing, product development and business leadership positions for Hewlett Packard Co., W.L. Gore and Associates, and Thermo Fisher Scientific. He has also served as an adjunct professor of business and marketing for several universities. Dan is currently working for ILC Dover in their Space Systems Division, which includes EVA & LEA spacesuits, inflatable space habitats, and spacecraft landing systems.
BOSTON MUSEUM OF SCIENCE

As science and technology increasingly shape our lives, the Museum of Science’s mission is to inspire a lifelong love of science in everyone so that we can all live in a world where science belongs to each of us for the good of all of us.

Among the world’s largest science centers and New England’s most attended cultural institution, the Museum engages nearly five million people a year — at Science Park and in museums around the world, in classrooms, and online.

Established in 1830, the Museum is home to such iconic exhibits as the Thompson Theater of Electricity, the Charles Hayden Planetarium, and the Mugar Omni Theater. The Museum influences formal and informal STEM education through research and national advocacy, as a strong community partner and loyal educator resource, and as a leader in universal design, developing exhibits and programming accessible to all.

The Museum’s unique location spanning the Charles River connecting Boston and Cambridge, is at the intersection of some of the world’s most influential academic institutions and industries, local and state government, schools, and the public.

Trusted by each sector, the Museum is positioned to convene, inspire, and create meaningful experiences for all.

Through digital experiences like MOS at School, MOS en Espanol and MOS at Home, the Museum of Science, is bringing the STEM education experiences its known for to students and families around the world in both English and Spanish.

“With MOS at Home, the Museum is bringing world-class STEM experiences to people everywhere, taking the learning that happens every day in our Exhibit Halls to everyone in our community and beyond,” said Tim Ritchie, president of the Museum of Science, Boston. “Through MOS at Home, our talented team of educators and experts is making STEM (Science, Technology, Engineering, Math) accessible to people of every age and background, to help cultivate a generation of problem-solvers, doers and makers, one that enjoys and celebrates science, whether or not they are able to visit the Museum.”
Blue Origin was founded by Jeff Bezos with the vision of enabling a future where millions of people are living and working in space to benefit Earth. In order to preserve Earth, Blue Origin believes that humanity will need to expand, explore, find new energy and material resources, and move industries that stress Earth into space. Blue is working on this today by developing partially and fully reusable launch vehicles that are safe, low cost and serve the needs of all civil, commercial and defense customers.

Blue’s efforts to fly astronauts to space on New Shepard, produce reusable liquid rocket engines, create a highly-reusable orbital launch vehicle with New Glenn and return Americans to the surface of the Moon—this time to stay—will add new chapters to the history of spaceflight and move us closer to fulfilling that founding vision. Everything we do follows our motto “Gradatim Ferciter” or “Step by Step Ferociously”.

Founded by Blue Origin in 2019, Club for the Future is a foundation whose mission is to inspire future generations to pursue careers in STEM and to help invent the future of life in space. The Club and its collaborators are doing this through Postcards to Space, space-focused curriculum, and access to space on Blue Origin’s rockets.
**SPACEX**

*SPACEX* has gained worldwide attention for a series of historic milestones. It is the only private company capable of returning a spacecraft from low-Earth orbit, and in 2012 our Dragon spacecraft became the first commercial spacecraft to deliver cargo to and from the International Space Station. Soon we will be the first private company to take humans there as well.

SpaceX believes a fully and rapidly reusable rocket is the pivotal breakthrough needed to substantially reduce the cost of space access. The majority of the launch cost comes from building the rocket, which historically has flown only once.

Compare that to a commercial airliner – each new plane costs about the same as Falcon 9 but can fly multiple times per day and conduct tens of thousands of flights over its lifetime. Following the commercial model, a rapidly reusable space launch vehicle could reduce the cost of traveling to space by a hundredfold.

While most rockets are designed to burn up on reentry, SpaceX rockets can not only withstand reentry but can also successfully land back on Earth and refly again.

SpaceX’s family of Falcon launch vehicles are the first and only orbital class rockets capable of reflight. Depending on the performance required for the mission, Falcon lands on one of our autonomous spaceport droneships out on the ocean or one of our landing zones near our launch pads.

We hope you are looking forward to discussing SpaceX and their space exploration breakthroughs!
Fish & Richardson, the premier global intellectual property law firm, is trusted by the world’s most innovative and influential companies. From patent, trademark, and copyright prosecution and counseling to our full-service litigation practice, we work together to provide our clients with exceptional advocacy across the life cycle of intellectual property needs in the U.S. and around the world. Our deep bench of attorneys with first-chair trial experience in every technology makes us the go-to firm for the most technically complex cases. Fish was established in 1878, and now has more than 400 attorneys and technology specialists in the U.S., Europe, and China. Our success is rooted in our creative and inclusive culture, which values the diversity of people, experiences, and perspectives. For more information, visit fr.com or follow us on Facebook and Twitter.
Fish & Richardson P.C. is a premier global intellectual property law firm, sought after and trusted by the world's most innovative brands and influential technology leaders. Fish offers patent prosecution, litigation, trademark, and copyright counseling and advocacy for a broad range of client needs. Our deep bench of attorneys, with first-chair trial experience in every technology, makes us the go-to firm for the most technically complex cases. We have an established reputation as a top-tier firm for patent portfolio planning, strategy, and prosecution, as well as post-grant proceedings at the PTAB. Fish was established in 1878, and now has more than 400 attorneys and technology specialists in the U.S., Europe, and China. Our success is rooted in our creative and inclusive culture, which values the diversity of people, experiences, and perspectives. For more information, visit fr.com or follow us at @FishRichardson.