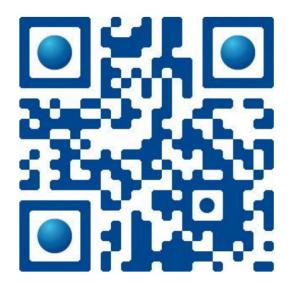
"Space for you. Space for a ll."



-Shelli Brunswick, COO, Space Foundation



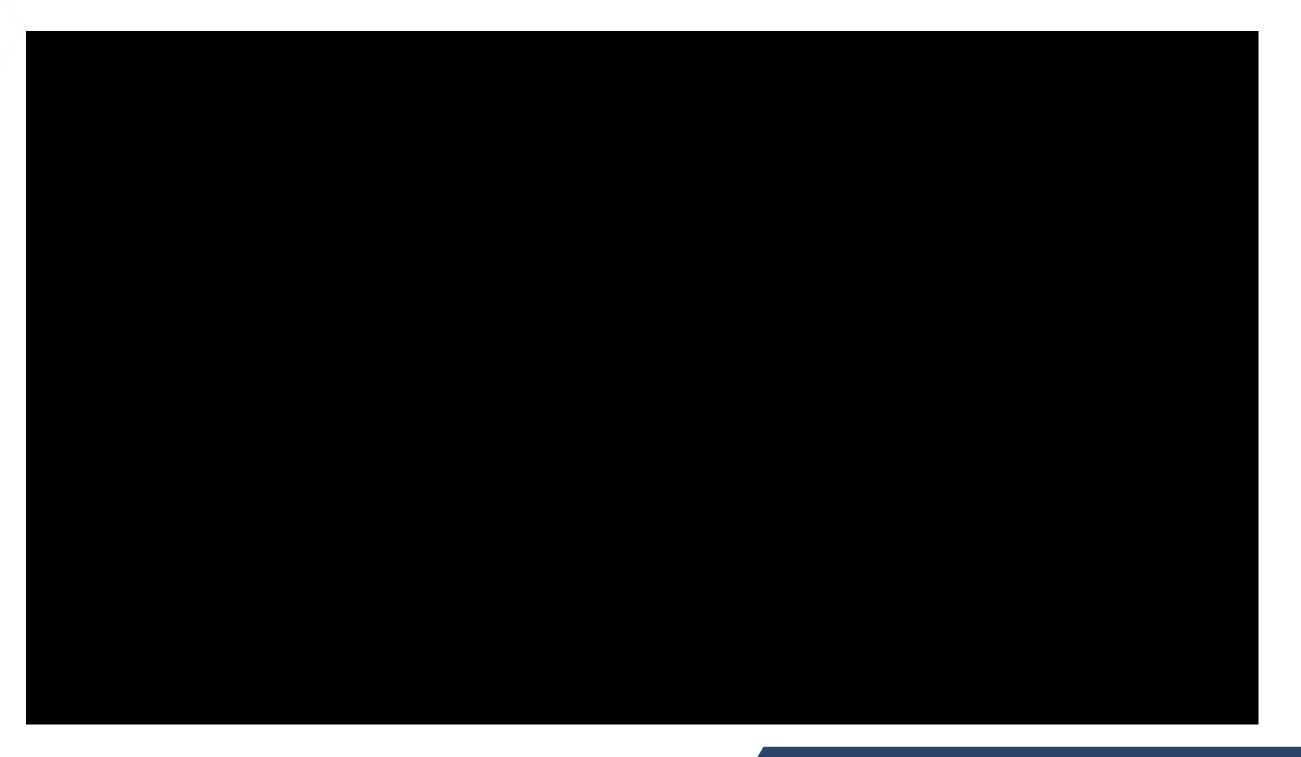
Find your place in the global space ecosystem!













What is Space Foundation





Advocating for Innovation.

Bettering Life on Earth.



What is Space Foundation?









GlobalSpace

Ec o syste m

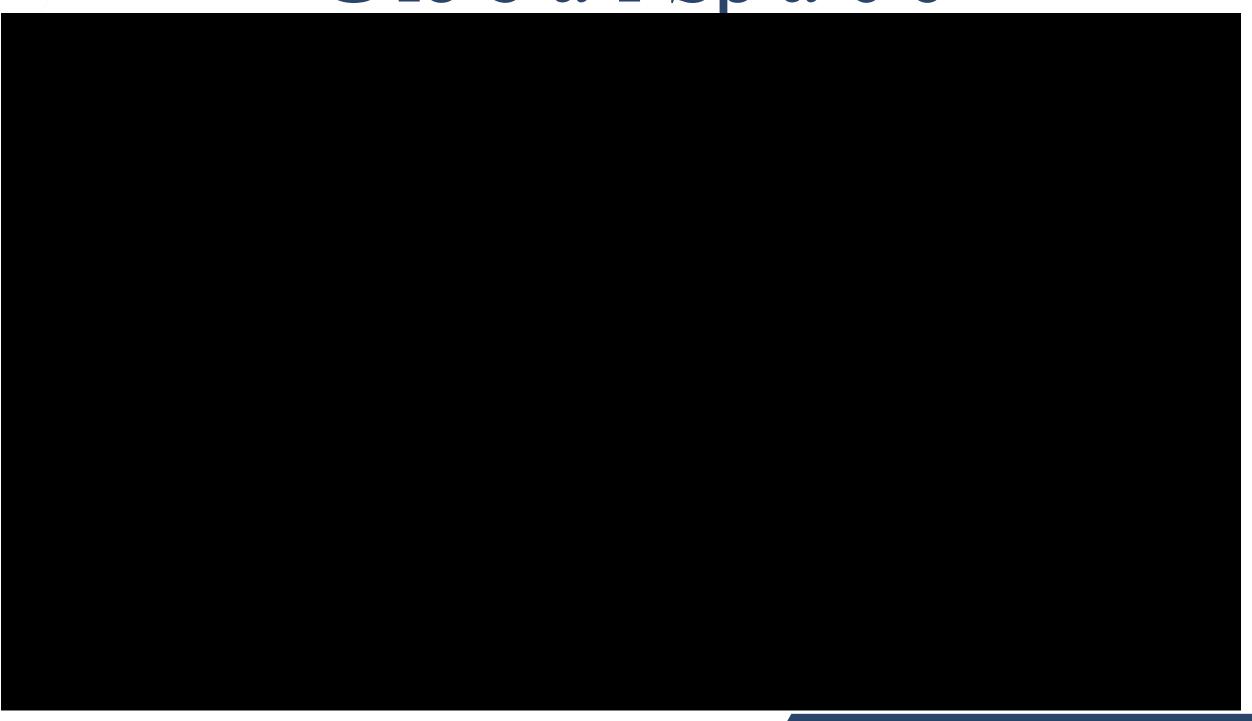








GlobalSpace





The Space Economy Opportunities



\$447+ billion g lobal market

\$1-3 trillion growth expected by 2040

85+ nations operating in space

Record investment \$8.9 billion

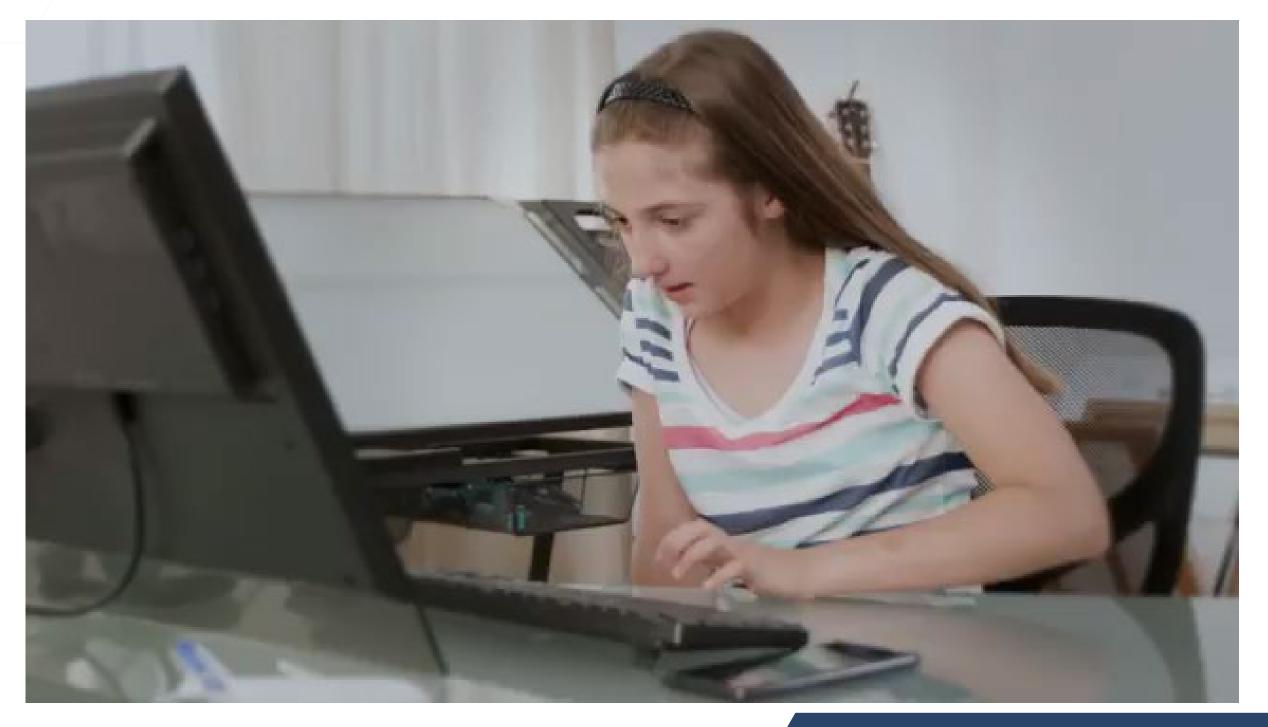
Space-related mergers, buyouts and equity financings to taled \$18.2B

Commercia 180%, Government 20%

Sources: The Space Report, Space Capital, Bank of America and Morgan Stanley global projections



Space Technology in Your Life

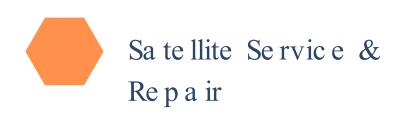




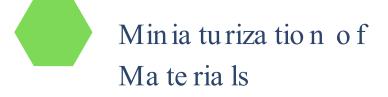
Te chnology Trends to Watch





























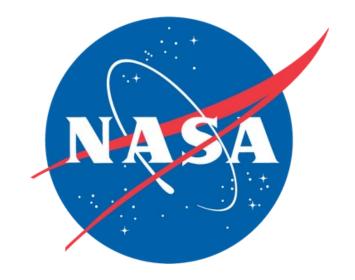




Space Innovation Gap Space Transfer & Space Insertion

For a full listing of a vailable NASA patents and patent applications a vailable for licensing, visit:

http://technology.nasa.gov/patents



For ESA patents and patent applications a vailable for licensing, visit:

https://www.esa.int/Enabling_Support/Space_Engineering_Technology/ESA_s_Technology_Transferand_Patent_Office





Connecting Space to Everyday Life on Earth



Space-based inventions are integral to every facet of daily life

- Cell phones
- Athletic shoes
- Cord less tools

Space-based technology is responsible for improving lives

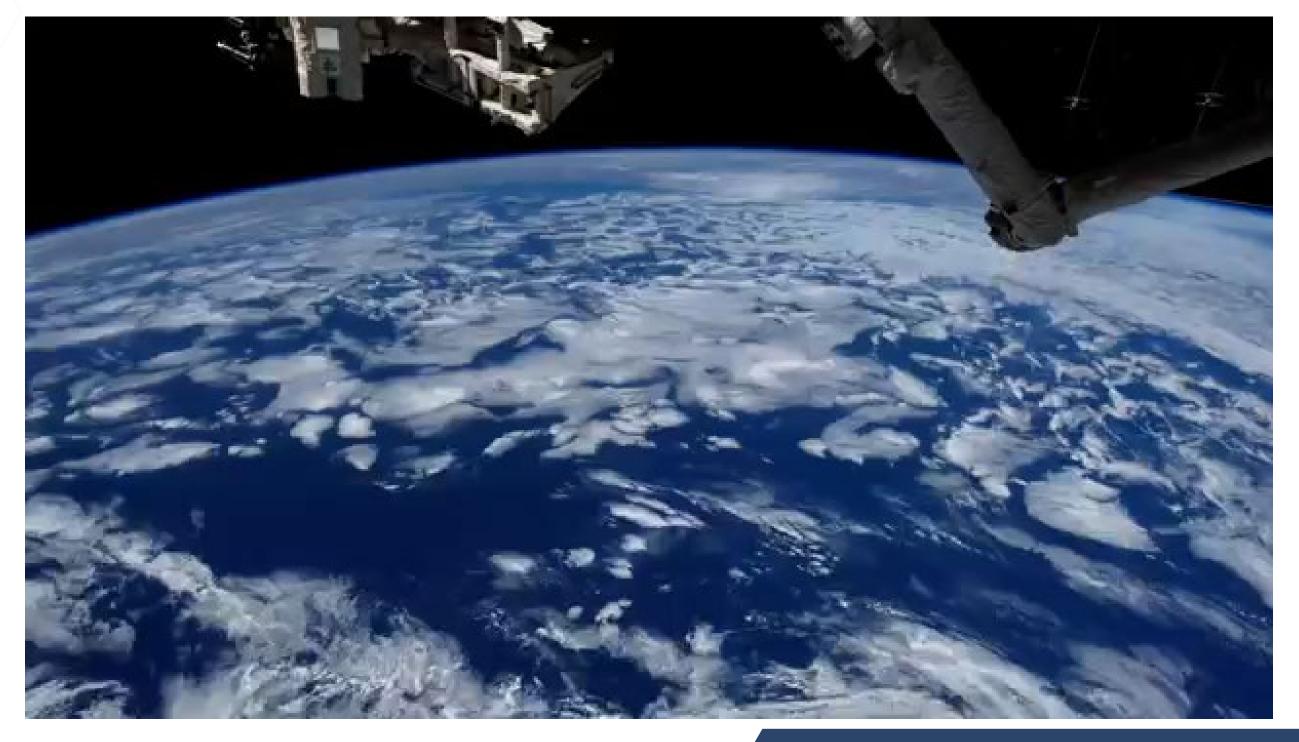
- We a ther prediction
- Fire retardant clothing
- Breast cancer detection

Space-based innovation can help better life on Earth

- Earth observation
- Food and natural resources
- Medical cures



Connecting Space to Everyday Life on Earth





Connecting Space to You and Me



Everyone can find a place in the space e c o syste m

- Non-STEM la borers, tra de workers and a rtists
- Business entrepreneurs and administrators
 STEM professionals



Space Related Careers Video





Workforce Development Roadmap



Awa re ne ss

There is no better TIME to join the space ecosystem.

Access

The space ecosystem is accessible to ALL people.

Tra in in g

Adopt a culture of LIFELONG LEARNING for all ages.

Connections

"The future of the space ecosystem is PARTNERSHIPS.

Me n to rsh ip

The space ecosystem UNITES the planet and humanity.



Ne two rking and Mentorship



Women's Global Gathering 36th Space Symposium

Unite d Na tions Space 4 Women Ne twork

• We bin a rs a nd mentorship programs inspire nextgeneration space leaders.

Space Generation Advisory Council (SGAC)

• A g lo b a l ne two rk for students & young professionals.

Women in Aerospace (WIA)

• 2000+ members increase leadership capabilities and visibility.

Women Tech Network

• Global community promotes gender diversity and tech opportunities.

To d'Aé rs

• International network promotes sustainable space studies, research and development.

Women's Global Gathering at Space Symposium

• Annual event fe a ture s commercial and government le a ders from 40+ countries.



Space Ecosystem Challenges



36th Space Symposium Attendees in the International Center

Work Force Shortage

- Open jobs exceed unemployed workers
- Retiring baby boomers are leaving gaps
- Underserved are untapped workforces

Skills De fic it

- Perceptions cannot be limited to a strona uts
- Space must be integrated into core curriculum
- A culture for life long learning must be a dopted

Innovation Gap

- NASA patents a vailable for tech transfer
- Enterprises rely on suppliers for tech insertion
- Workforce diversity is a source of new ideas



Center for Innovation and Education





A life long le a rning platform offering workforce development and economic opportunity for students, te a chers, entre preneurs and professionals in the global space ecosystem.

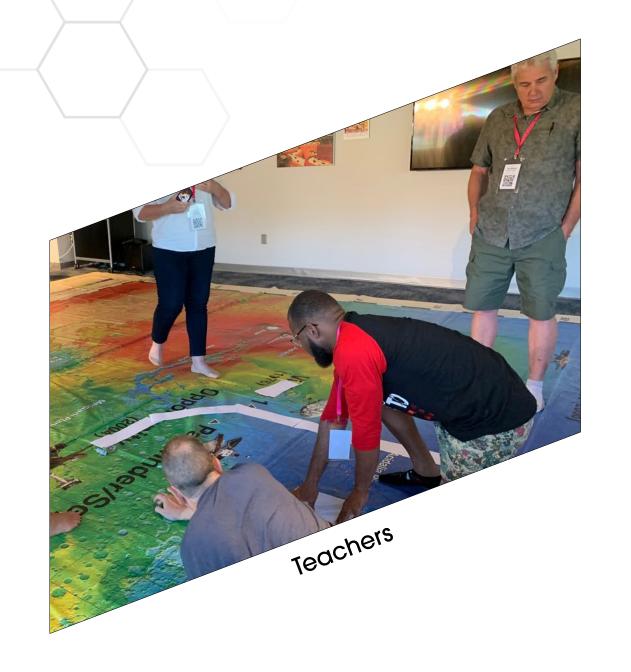


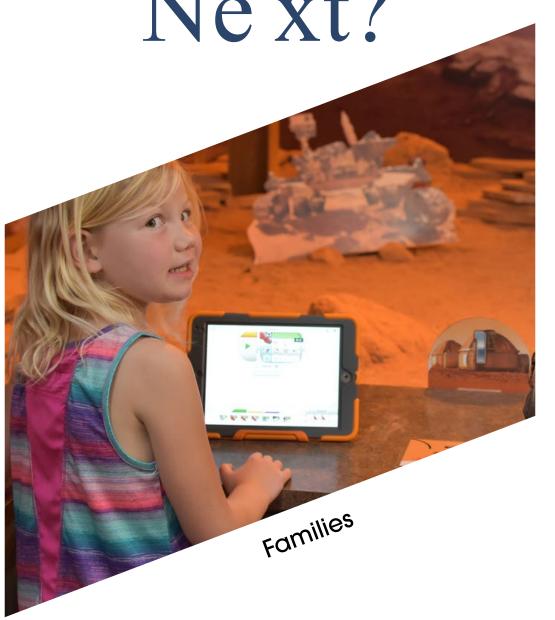




Wha t's

Ne xt?









Join Us

JOIN THE WORKFORCE: find your place in the space ecosystem - www.spacefoundation.org/cie

PARTNER: collaborate, sponsor and fund programs -- www.spacefoundation.org/join-us

DONATE: contribute to our mission - www.spacefoundation.org/donate

PARTICIPATE: connect with the space ecosystem 365 days a year - www.spacesymposium 365.org

CONNECTWITH SHELL: ne two rk to success -- www.linkedin.com/in/shellibrunswick

Find your place in the global space ecosystem!







Backup Slides



Teachers



Space Foundation International Teacher Liaisons

Make it hands-on/Immersive

Embrace technology

Make learning:

- Fun
- Engaging
- Re le va nt



Fa m ilie s



Take your family to places that encourage space inspired a c tivitie s

Go out starg a zing

Follow Space inspired programs and information



Community



Sponsor a school, class, enrichment programs

Find ways to get involved in your local school

- Volunte er to be a science fair judge
- Be a guest speaker, mentor, role model
- Find out if students can take a field trip to your facility



CI&E - Who We Serve



3-D printing class at Space Foundation Discovery Center

Building Today's Workforce: professionals

- Global space agencies workforce development initiatives
- Governments policy education and advocacy
- Space professionals corporate networking and mentoring programs
- Small businesses custom-designed training
- Entre preneurs space commerce workshops
- Young professionals leadership and mentoring programs

Building the Next Generation Workforce: students

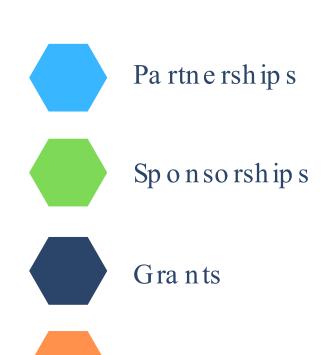
- Communities space-inspired STEM events
- Teachers and educators professional development
- Junior space entrepreneurs real world inspiration and mentoring
- Students immersive live and online space-inspired experiences



How Space Foundation Delivers

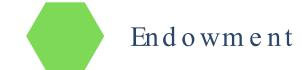


Business meeting at 36th Space Symposium





Fundra ising





Space Commerce Entrepreneurship Program

Audience: Entre pre neurs, small businesses, inclusive of minority, women, ve terans

Sponsor: U.S. Department of Commerce, Minority Business Development Agency

Purpose: La unching entrepreneurs and small businesses into the space industry

Outcome: Jobs, careers, and public private enterprise and government contracts

Workshops

- 275+ underserved entrepreneurs and small businesses have participated to date
- Workforce Development Roadmap: Awareness, Access, Training, Connections, Mentorship
- Colla bora te with universities, incuba tors/accelera tors, regionalcommunities
- 18 scholarships to attend Space Symposium awarded to date

Online Webinar and Guest Speaker Series

- 15 free, self-driven, on-demand videos
- Space commerce expertise to grow a business
- Fe a ture d interviews with entrepreneurs





Success Story: Global Engineering Startup

Small Business Referred by Department of Commerce MBDA

- Commercialengineering company
- He rita ge: La tino entre pre ne urs
- Small business founded in 2018

Workforce Development Roadmap

- Awareness: Attended regional Space Commerce Entrepreneurship workshops
- Access: Learned about opportunities in space ecosystem
- Training: Gained strategy and skills for conducting business in the space sector
- Connections: Networked with 150+ enterprises at Space Symposium
- Mentorship: Business lifecycle guidance from space professionals

Startup Pivots Business Strategy to Gain Interest from Large Enterprises

- Pivot from targeting U.S. government to pursuing global commercial projects
- Pivot from selling parts and components to selling comprehensive solutions
- "Space Foundation helped us find our place in space."



Space-Inspired Curriculum and Teacher Development

JUNIOR SPACE ENTREPRENEUR PROGRAM

Audience: 10-18-year-old students, teachers, school administrators, mentors

Sponsor: Lockheed Martin, NASA, Junior Achievement

Purpose: Prepare the next generation to contribute to the space industry

Outcome: Students inspired to pursue careers in the space sector

Pro fe ssional De ve lopment for Educators

- Cultivating next-gen space contributors
- Integrating space-inspired curriculum
- Practicing immersive hands-on activities
- Le arning about space commercia lization
- Embracing 21st century, future-proofessential skills



Winner of Fa st Company Honorable Mention for 2020 World Changing Ideas Award



Success Story: STEM Schoolin Colorado

Pilot: Public Charter K-12 School

- 50 high school students
- Immersive week in space education, entrepreneurship and personal growth
- Supported by Lockheed Martin, NASA and Junior Achievement
- Goal: prepare students for studies and careers in the space ecosystem

Junior Space Entrepreneur Program: Mission to Mars Pilot

- Awareness of challenges in sending a stronauts to Mars and returning safely
- Access to NASA tech transfer and insertion for space commercialization
- Training for STEM and non-STEM, building prototypes, business planning
- Connections to real world space practitioners and opportunities
- Mentorship for students by space proson essential skills and pitching investors







