

FUTURE AFRICAN SPACE EXPLORER'S STEM ACADEMY

WORLD SPACE WEEK 2023

STELLENBOSCH UNIVERSITY
CAPE TOWN, SOUTH AFRICA
4-6 OCTOBER



Our Partners



About Space Week

World Space Week is an international celebration of space, science and technology, and their contribution to the betterment of the human condition. Established in 1999 by the United Nations, Space Week is commemorated globally on 4th – 10th October every year.

Space Week South Africa will be a Space Science fair that will bring together local & international industry experts, organizations and corporations that operate in the space domain.

This Space Science fair will include exhibitions, presentations, and keynote speeches aimed at cultivating the South African youth minds and the general public's interest in space education and the space industry. Space Week will provide educational and networking opportunities for the participants.

Space Week is tailor-made for teachers, students and space enthusiasts who are passionate about aerospace and are looking for ways to create holistic, hands-on activities in the classroom.

Through Space Week, we hope to usher in a new age of education and technology in South Africa. STEM teachers & students will benefit most from this event.



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LEARNING OUTCOMES

01 | MOTIVATE

Motivate and inspire students to enhance their literacy & competence in sciences, technology, engineering & math (STEM disciplines)

02 | INSPIRE

Inspire students to consider pursuing a career in the STEM field, particularly in the space domain.

03 | AWARENESS

Promote awareness of the importance of space research, exploration, and applications in the objectives of modern society and the economy.

04 | EXPERIENCE

The students will be sitting face-to-face with space science professionals. Students will have the opportunity to present themselves and ask the Professionals questions.

It's a great opportunity for students to meet, discuss and maybe contract a mentoring relationship. Certainly, a good way to help them to find their path!

After the event, we create a network which of Space Mentors and Space Mentees. The students can easily get in touch, and ask questions and advice.



“I was once a child with a dream looking up to the stars. Now I'm an adult in a spaceship looking down to our beautiful Earth.

To the next generation of dreamers: if we can do this, imagine what we can do.”

“Welcome to the dawn of a new space age.”

RICHARD BRANSON

OBJECTIVES

The goal is to introduce Teachers & students to the space domain's immense career opportunities.

To educate the students and empower them to expand their opportunities to enrich their community through science and technology.

To form a passionate learning network committed to the professional growth of the students





World space week will be hosted by:

FASESA

in collaboration with

Estes Rockets

ABOUT FASESA

Future African Space Explorer's Stem Academy (FASESA) is a not-for-profit organization, formed with the aim of growing the Space Exploration landscape in South Africa and eventually the whole of Africa. Our goal is to enable nations to achieve greater realms of technological success through spacefaring endeavors by engaging, encouraging, and empowering the youth to pursue space careers through dedicated exposure to Science, Technology, Engineering, and Mathematics (STEM) topics.



ABOUT ESTES ROCKETS

Estes Industries was founded in 1958 by Vern and Gleda Estes and found a home soon after in Penrose, Colorado (the model rocket capital of the world). Through more than six decades of hard work and innovation, Estes has grown to be the leading manufacturer of model rocket engines, kits and accessories.

Estes Rockets is committed to enabling safe, successful flights for customers everywhere, from their backyards and schoolyards to worlds beyond.



WORLD SPACE WEEK 2023 PROGRAM

CAPE TOWN, SOUTH AFRICA
4-6 OCTOBER 2023

DAY 01 CAREERS

- 08:30 Registration
 - 09:00 Why Space Exploration Matters
 - 09:30 Introducing and promoting Space Exploration as part of STEM in schools.
 - 10:00 How to integrate Space Projects into Your Classrooms
 - 10:30 How to interest & Inspire students to make careers in the space sector.
 - 11:00 Tea Break
 - 11:30 What careers are needed in Space?
 - 12:00 Lunch
 - 13:00 Exhibitions - Aerospace Universities & Companies in South Africa
 - 15:00 The End.
-

“Space Careers” does not just mean one has to be an Astronaut.

The impressive development of Space Applications gives immense opportunities to those who study IT, Agronomy, Biology, Chemistry, Nutrition, Geography, Medicine, Law, Management, Communications, Electronics, Physics, and so on.

Several Jobs in the Space Industry to Explore:

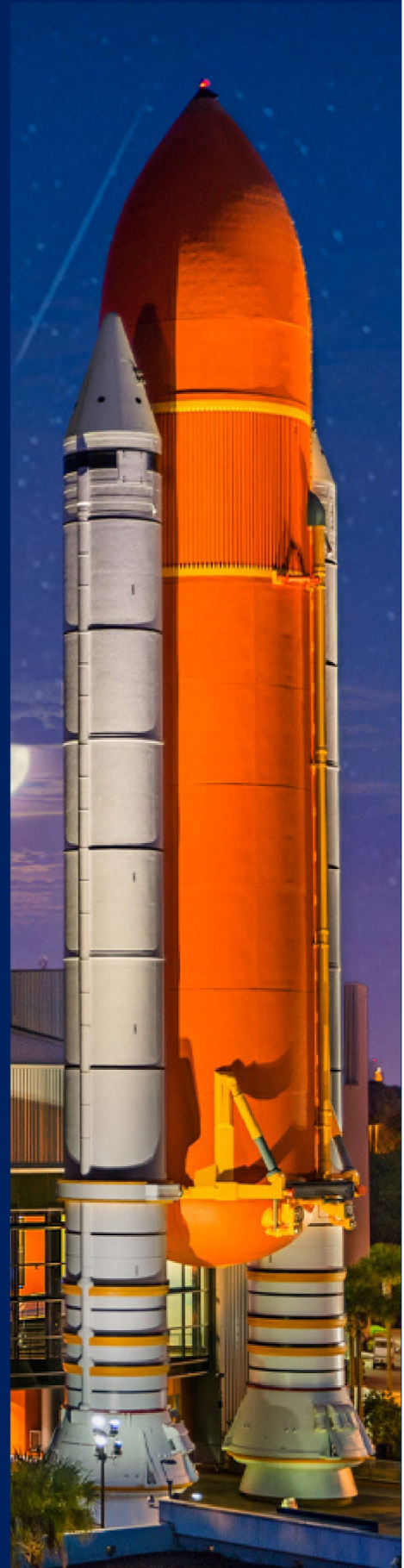
- Avionics technician
- Producer
- Photographer
- Research fellow
- Electrician
- Laser technician
- Public relations specialist
- Technical writer
- Accountant
- Satellite technologist
- Biologist
- Manufacturing Engineer
- Mechanical Engineer
- Cyber architect
- Atmospheric scientist
- Robotics Engineer
- Electronics Engineer
- Aerospace Engineer
- Software Developer
- Computer hardware engineer
- Astronomer
- Physicist

DAY 02 SPACE SCIENCE

- 08:30 Registration
- 09:00 Rocket Science
- Intro to Rocket Science and Technology.
 - How Does a Rocket Fly?
 - Hands-on activity & video
 - How Do I Become a Rocket Scientist? Which universities offer Aerospace Engineering: Rocket Science and Engineering
- 10:00 Satellite Science
- Introduction to Satellite Technology.
 - How do we Launch a Satellite?
 - How Do I Become a Satellite Engineer?
 - Hands-on activity or video
 - Which universities offer Aerospace Engineering: Satellite Engineering
- 11:00 Tea Break
- 11:15 Astronomy
- What is Astronomy?
 - How Do I Become an Astronomer?
 - Hands-on activity or video
 - Which universities offer Astronomy
- 12:00 Lunch
- 13:00 Earth Observation & Remote Sensing
- Introduction to Earth observation & remote sensing
 - Hands-on activity or video
 - How do I become an Earth Observational Scientist or a Remote sensing specialist?
 - Which universities offer Earth Observation & Remote Sensing
- 14:00 The End.

DAY 03 ROCKET LAUNCH

- 08:30 Registration
- 09:00 Estes Rockets Webinar
- 10:00 Introduction to model Rockets and Team Selection
- 10:30 How to assemble the rockets
- 11:00 Tea Break
- 11:15 Best assembled Rocket competition
- 12:00 Lunch
- 13:00 Rocket Launching
- 14:00 The End.



In partnership with:



UPCOMING EVENTS

EARTH OBSERVATION & REMOTE SENSING WORKSHOP

28

**July
2023**

**Pretoria
South Africa**

Using STEM
to combat
climate change



WORLD SPACE WEEK INTERNATIONAL

4-10

**October
2023**

**Cape Town
South Africa**

Rocket Science
& Careers in
Space



KENNEDY SPACE CENTER VISIT

8-12

**January
2024**

**Orlando
Florida, USA**

Meet an
astronaut & visit
Disney World



REGISTER NOW >>> WWW.FASESA.COM

PRESS RELEASE

FASESA HIGHLIGHTS

PREVIOUS EVENTS

STEM ORIENTATION WORKSHOPS 13-17 March 2023: Gauteng, North-West & Free State, SA



WORLD SPACE WEEK 4-10 October 2022: ZAMBIA

Engagement by World Space Week Association Team during World Space Week

CONFERENCE: ENHANCING STUDENT ENGAGEMENT IN SPACE EXPLORATION

27-29 April 2022: Sandton, Jhb



FASESA 'S ENGAGEMENT IN WORLD SPACE WEEK 2022 RANKED NR.1 IN THE SPACE WEEK INTERNATIONAL HIGHLIGHTS.

- Future African Space Week Explorer's STEM Academy (FASESA) organized Space Week Zambia from October 4-10, 2022 where our Theme Manager, Annie Kazarjan gave a presentation.
- Space Café WebTalk featured Dennis Stone, President of World Space Week Association, in conversation with Torsten Kriening, publisher of SpaceWatchGlobal. The title was World Space Week 2022: An Insight into Space and Sustainability.
- On October 6, WSWA Executive Director Maruška Strah participated in a special event called "Women in Space" in Beer-Sheva, Israel, which celebrated the achievements and contributions of women in the space sector. The event included an exhibition by the She Space girls, showcasing their work and inspiring others to pursue their own interests in space.