



SENIOR SPACE SCHOOL

An International Study Program

+ HIGHLY ENGAGING EXPERIENTIAL LEARNING

+ LEARN FROM EXPERTS + ON-SITE AT NASA

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SENIOR SPACE SCHOOL

Space School programs are delivered in collaboration with NASA, and various scientists, professors, and educational personnel. The aim is to develop students' interest in space science. The program extends to combine learning principles, motivational applications and experiential learning on-site at NASA. This highly engaging and empowering approach makes the Space School renowned all over the world.

PROGRAM FEATURES

Exploring space, science and managerial principles

Space School is one of the few short-term youth study programs in the world covering science, management and space, to provide students with a most exciting motivational study platform. During Space School, NASA astronauts, engineers, scientists are specially invited to give professional and interactive presentations to students.

Get to know NASA, talk to the best in the field

Students will gain a deeper knowledge of NASA, and through simulating projects like the mission to Mars, engage in unique and insightful discussions with the best engineers, scientists and managers of NASA. They have a VIP tour of behind the scenes of the mock up assembly of the international space station, will design the Mars exploration rover, build and launch rockets, visit the Apollo mission control center and much more.

Highly engaging experiential learning

Students through Space School will be placed in mission control and taking part in simulated space missions. They will learn about goal-setting, project planning, resource management, crisis management and teamwork. Students develop independent thinking, empowering creativity, resilience as well as developing team spirit and encouraging them to truly reach for the stars.

Space oriented problem based learning

A project-program design that focuses on the student, with the incorporation of space mission scenarios, problem-based learning and technically-challenging anomalies, leads to the most efficient and exciting learning experiences within a minimal timeframe.

The Space Center Houston and Space School Certificates

Upon completion students will be awarded two international certificates:

- Certificate from the Space Center Houston
- Certificate from Space School International Study Program



Space Shuttle Command



Robotics demonstration



Lunar Rover



Rice University Professor Tayfun lectures on parachute mechanics



Heather Paul of NASA lectures on space suit technology

THE SENIOR PROGRAM

Outline

- Simulate a US\$600 million NASA project
- Understand key principles of rocket and space travel
- Project and time management
- Budget development and control
- Teamwork with multi-discipline collaboration
- Crisis management
- Entrepreneurial development
- Motivational themes and their applications
- Application of Problem-Base Learning

Activities

- VIP tour of NASA facilities
- Discussion with NASA scientists, engineers, mission control and astronauts
- Attend lectures
- Teamwork in labs
- Development of simulated space travel equipment guided by NASA educators
- Hands-on experiments
- Team building activities and presentations
- Motivational personal development activities
- Cultural tour of Houston and Texas oil refineries

Learning Outcome

- Apply management principles in innovative and complex environments
- Develop critical thinking and problem solving skills
- Learn to set and achieve targets
- Lead through influence for successful teamwork
- Encouraged to challenge themselves
- Be effective in collaborative teamwork
- Initiative and entrepreneurial mindset
- Curiosity and imagination
- Pursue personal values and set life goals

PARTICIPANTS

Senior Space School
Years 11, 12 and 13

TIME & LOCATION

Available during New Zealand school term breaks
on site in Houston, Texas, USA

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Empower Youth for Future Success

THE SPACE SCHOOL DIFFERENCE



Other providers

Space School delivers a more profound learning outcome than other providers.

Space School provides a forward-looking, unique and experiential based study program that compliments conventional school education, and strengthens critical developmental skills for students. It utilises the school term breaks to deliver engaging learning experiences, in which the students will receive the most exciting education and the most effective learning program within a short period of time.

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Actura provides the leading STEAM learning solution spanning in-class and out-of-class environments. From the ultimate robotic in-class FlipRobot range to the exclusive Space School International Study Program, students will be empowered for their future success.

IMPORTANT INFORMATION

- Program cost includes: Tuition fee, admission to program events, accommodation and meals.
- Travel costs are indicative and include: Airfares and insurance
- Accommodation: Students share 2-3 per room in a 4 star business hotel. The hotel is secure, well serviced and provides rooms for group activities.
- Medical doctor arrangement: Doctors from Houston Medical Center.
- School nurse set up at the hotel, medical facilities nearby.

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STUDENT TESTIMONIALS

" My experience at Space School has been amazing. I loved almost everything, mainly all of the astronaut speeches and the inspiration they gave me to follow my dreams and never give up, I liked all of the activities planned throughout the day and learnt all about the Seven Habits which I never knew even existed."

Loreto Kirribilli, Sydney

" I wanted to go on space school as I have always had a passion for science, space and engineering and thus I wanted to explore into those disciplines. The Space School program was a perfect opportunity to ignite my passion for these three areas. I also understood how this opportunity would be once in a life time which really enticed me to participate."

Santa Sabina College, Sydney

" This Space School trip has inspired me to travel beyond my capabilities. I understood qualities of others and discovered new qualities about myself in this trip. My connection with my crew trainers improved my learning and giving my group and I a better experience there for learning new areas of science I thought I could never learn."

Wesley College, Melbourne

" It was amazing, I did not only learn about the world of space and all the people associated with it, I learnt a lot about how to succeed and to work hard and most of all I had one of the most reliable experience in my life."

Loreto Mandeville Hall Victoria

" Dr H Paul was so inspirational and she showed how successful a women can be in a previously male dominated field."

Santa Sabina College, Sydney

" From the beginning to the end, there were fun activities, amazing people and supportive elders. All of the experiences made you realize how lucky we are to be on this trip. I have learned never to give up on your dreams and anything is possible no matter how hard your dream may be."

Knox Grammar School, Sydney