

### **What is Space Camp?**

Space Camp is a realistic and interactive astronaut training experience that exposes children to math, science, engineering, and technology concepts in a safe, stimulating and encouraging environment.

### **Where is it located?**

Space Camp is located in Huntsville, Alabama, USA.

### **When was it established?**

Established in 1965 by the State of Alabama, empowered by the U.S. Congress and supported by the National Aeronautics and Space Administration [NASA], the U.S. Space & Rocket Center® is America's leading hands-on space science museum. Since 1982, the U.S. Space & Rocket Center has fostered national and international outreach programs through the Space Camp®, Space Academy®, And Advanced Space Academy® programs.

### **Have other Indian kids attended Space Camp?**

In the last year or so, over 200 kids from six schools in Bangalore have attended Space Camp programs. They've all found it to be a once in a lifetime, amazing experience.

### **What are the benefits of the program?**

At Space Camp, students get to see real-world applications of the math, science, engineering, and technology concepts they are studying at school. Space Camp programs bring key concepts alive with experiences like space missions, weightlessness, moonwalks, rocket building, robotics, and simulator training. Space Camp, however, means so much more than just space flight training. Meticulously planned, immersive programs hone interpersonal skills - such as teamwork, self-confidence and communication, while positive adult role models help children strengthen their powers of reasoning, solve problems creatively, and enhance their leadership skills.

### **What activities will my child be involved in while at Space Camp?**

Space Camp programs are very rigorous, but action and fun filled every day. Participants are put through a host of training activities in groups of 16; each group of 16 is led by experienced counsellors who are with them all day. Physical training at Area 51 helps the group bond as a team and trust each other, natural leaders also tend to emerge in this training. Throughout the day, each day, participants are instructed and informed about the various aspects of space technology with frequent hands on demonstrations. They get to build scale model rockets and actually launch them. They experience 1/6th gravity, high G forces, and other simulators like the multi axis trainer just as actual astronauts do in the course of their training. They are briefed about the importance of the various people in a space mission and their roles and responsibilities. All these activities lead to simulated space missions where the group works as a team in mission control, space shuttle and international space station, to make the mission a success.

### **Will my child be interacting with kids from other schools or countries?**

Yes, at any given time, there are hundreds of children from the USA and countries across the globe; very likely there will be some in the group your child may be in. There is a healthy cross-cultural interaction that most children find stimulating and exciting.

**Tell me about the "EDUCATION TOUR PROGRAM to National Aeronautics and Space Administration of United states of America. (NASA) - Space Camp"**

DAY 1 : DEPARTURE FROM KOLKATA / MUMBAI

DAY 2 : NEW YORK (After arriving in New York Airport you have to check in Hotel)

DAY 3 & 4 : NEW YORK -- Tour

Ferry ride to STATUE OF LIBERTY & ELLIS ISLAND , Times Square, Wall Street, World Trade Centre, Rockefeller Centre, Grand Army Plaza, Museum , Federal Hall National Monument, Bowling Green, Trinity Church and Graveyard, Federal reserve Bank, Old Custom's House, Ground Zero, Broadway Show, The United Nations Building.

DAY 5 : NEW YORK - SPACE CAMP

After Breakfast depart New York , arrive Huntsville- Space Camp ( During entire Space Camp Program Students will stay in US Space and Rocket Centre, Huntsville, Alabama.

DAY --6, 7, 8, 9, 10: SPACE CAMP in United states of America.

DAY 11, 12 & 13 : Free day for student /Student have a option for Disney land but the have to pay there own expense.

DAY 14 : RETURN FLIGHT ( KOLKATA / MUMBAI ),

DAY 15 : ARRIVE ( KOLKATA / MUMBAI )

### **Q. Explain me about the Earlier performance of Indian Student Performance at NASA**

Indian students win gold in NASA contest A team from Jalandhar-based Apeejay School has won the gold medal in a "Space Settlement Design Competition" organised by National Aeronautics and Space Administration at Houston in the US. The 15-member team's achievement at the competition held during July 14-18 became known after Neeraj Kohli, the technical advisor of the team, sent a message to his parents at Solan in Himachal Pradesh. "Planning a colony on Mars " was the theme of the project prepared by the Indian team, which competed with eight others from around the world.

An Apeejay alumnus, the 21-year Kohli is a final year student at J P University of Information Technology at Vakknaghat. The budding space scientist said in his message to his parents that he and his team worked very hard for days to earn this honour. After winning the gold, the team was asked to stay on in the US by NASA till July 27. The team members will be acquainted with information regarding space technology. Kohli's elated father Balraj Sahni said he had always been very confident that his son would do well in the competition.

### **Second Referance**

Karnal: Alma mater of KalpanaChawla -Nivedita Mittal and PalakAggarwal will represent India in Houston, Texas, at the summer session of the United Space School Foundation in the summer camp on the site of NASA Johnson Space Centre.

Every year NASA chooses students from different countries around the world for two- week astronaut's camp. Nivedita and Palak of Tagore BalNiketan Senior Secondary School have stood 23rd and 24th respectively to represent India's cultural heritage.

Students from 26 countries have been selected this year for the camp starting from July 26 to August 10. The students will get the opportunity to witness the working environment and lifestyle of the Astronauts and their workstyle. Moreover, the first batch student of NASA, KamalikaChandla would be the coordinator of the programme. School principal RajanLamba expressed his joy and thanked KalpanaChawla for setting up the trend.

"The selection criteria of students was based on merit, for which students had to submit a project report and after that they were assessed on four grounds mainly intelligence, knowledge, communication skills and extra cultural activities," he added.

### **Third Reference**

NASA has now declared the names of winners in its supersonic airliner concept contest, an international competition that attracts star talent from all around the world. Students of Indian origin dominated the competition in the high school category and did exceedingly well at the college level as well.

This year's competition focused on conceptualizing a practical and environment-friendly supersonic airliner. In the US high school category,

2 ( Two ) Indian-origin students were part of the team that took the third prize in the team competition with the design of a supersonic viking transport (SVT) equipped with variable swept wings to reduce the sonic boom. In the non-US category, however, all three individual prizes were claimed by Indian-origin students, two from Singapore and one from Hyderabad. Sidharth Krishnan aced the category with his V-3, which he thinks will be a realistic goal by year 2020. SainyamGautam'sSonicliner with swept-back wings placed second and Hyderabad's Kulkarni placed third with his innovative ideas on ease of manufacturing.

In the Non-US college category, two students of SardarVallabhBhai Patel Institute in Gujarat, placed third with their innovative concept named 'Rastofust'.

Here's what intrigues me most. With indigenous engineering talent of that caliber hanging around in our schools and families, how is it that the adults amongst us can't build a 2-bit railway bridge or a design a wellpaved street or come up with some direly needed innovations in public sanitation?

The answer may lie in the fact that none of the Indian students were affected or influenced by any governmental entity. There is news that India's state-run airline is almost bankrupt and wants to defer its loan payments, reduce its employee privileges, and is in the negative by almost a billion dollars. Air India's best bet may be to let some of our school-going kids manage the enter prize. Their management skills may be just as sharp or even better than their math.

### **Fourth Reference**

WASHINGTON : An undergraduate team from the SardarVallabhai Patel Institute in Gujarat has been declared runner-up in the non-US category of a NASA competition to design a supersonic airliner.

Named "Rastofust", the design of the supersonic airliner was designed by SahajPanchal and Dhrumir Patel, NASA said yesterday while announcing the result of its contest.

The top slot in the non-US category was grabbed by students from the University of Tokyo, Japan. College students from the US, Japan and India researched technology and created concepts for a supersonic passenger jet as part of a competition sponsored by the Fundamental Aeronautics Program in NASA's Aeronautics Research Mission Directorate, NASA said.

The participants were challenged to design a small supersonic airliner and submit a research paper limited to 25 pages. Designs had to be efficient, environmentally friendly, low sonic boom commercial aircraft that could be ready for initial service by 2020.

A team of undergraduates from the University of Virginia in Charlottesville, and a team of graduate students from the Georgia Institute of Technology in Atlanta tied for first place in the US division, it said.

- [Will Space Camp pick up my child from the Airport?](#)

Space Camp and Aviation Challenge are located approximately 15 minutes from Huntsville International and airport pick-up and drop-off facility is provided.

- [Will my child get sick on the simulators?](#)

Our astronaut training simulators are designed to give trainees a taste of early astronaut training. They should not become sick or dizzy on any of our simulators.

1/6th Gravity Chair

Five Degrees of Freedom simulator

Multi-Axis Trainer

- [Where do campers sleep during camp?](#)

While at Camp, your child will be housed in the on-site Habitat facilities with 24-hour security and nursing staff

- [Who can come to Space Camp?](#)

We accept trainees from around the world; however programs are conducted in English and participants must be proficient in the English language. To date, Students are Joining from more than 90 nations.

### Junior Batch for Space Camp

**Eligibility:** Junior Batch - Student from Class 6 to Class 12 are Eligible

### Senior Batch for Advanced Space Camp

**Eligibility:** Senior Batch - Student studying in Engineering or Graduation with physics as a relevant subject.

- [What should my child wear at camp?](#)

#### Space Camp Dress Code:

While attending the program, trainees are required to dress in an appropriate and conservative manner.

Swimwear - one-piece suits for females are recommended. If two-piece suit is worn, will be asked to wear a t-shirt.

Females will wear shorts with their swimsuit.

Males should wear board-type swim shorts and a t-shirt.

Trainees will need two pair of long trousers and extra shoes for activities involving crawling on the ground. Long trousers are required for these activities.

**Campers will be asked to refrain from wearing the following:**

Shorts that do not cover the upper thigh

Dresses/skirts without shorts underneath

Low-cut tops

Tank tops that have straps that measure less than one inch in width

Any clothing that reveals undergarments

Shirts that reveal the midriff

Clothing (including hats) that display risqué, offensive, inappropriate logos, mottos or art. This includes, but is not limited to, logos advertising or advocating the use of alcoholic products, tobacco products or drugs.

▪ **What should I pack?**

**Packing List**

Prescription medications in original bottle with prescription legible in English. If medication is administered differently than what the bottle indicates, then a separate physician prescription must accompany the medicine.

Vitamins and herbal products must have written instructions by parent/guardian or physician, legible written in English, or they will not be administered.

Over-the-counter medications need written instructions by parent/guardian or physician, legibly written in English, or they will not be administered.

All of the above items will be collected and dispensed by our nursing staff. Trainees are not permitted to self-medicate, without prior approval from a staff nurse.

Bed linens will be provided for weeklong campers.

Spending money for vending machines - \$1 denominations

Combination padlock (Please ensure trainee knows how to operate the lock.)

Bug Spray

Toiletries: soap, deodorant, shampoo, toothpaste, toothbrush

Towels and washcloths

Hair brush/comb

Flip flops or shower shoes

Sleepwear

Casual clothes (see dress code)

Climate appropriate outerwear (jacket/rain poncho)

Socks and athletic shoes (closed-toe shoes)

Zip lock bags for dirty clothes

Lip balm for chapped or wind-burned lips

Water bottle

Hat

Backpack or day pack

Swimwear\* and towel for water activity.

During the months of November - February, please bring a jacket, sweatshirt or coat, gloves and hat

For Groups attending in late May - September, please bring sunscreen.

\*Please note, all camp trainees must wear a t-shirt and shorts with their swimsuits to participate in the activity.

#### **Additional Items**

- Extra pair of athletic shoes
- Two(2) pair of long trousers or pants (khakis recommended)

*Close-toe, close-heel shoes are required for this program. BDU camouflage jacket will be provided for the duration of camp.*

#### **PLEASE DO NOT BRING**

- Skates or roller shoes
- Hand-held computer games
- Other expensive Items

**Nuts and nut-containing items are NOT allowed in any Space Camp trainee areas of the Space Camp Crew Galley (dining area). Any nut products brought in will be confiscated and disposed of immediately and without reimbursement.**

*Space Camp and the U.S. Space & Rocket Center are not responsible for lost, stolen, or damaged items.*

- [What comes in the clothing package?](#)

Space Camp: T-shirt, shorts, hooded sweatshirt, sweatpants and backpack, camouflage pants and a knapsack\*

\*In the event the exact style is not available, a comparable item will be substituted. Items are distributed at camp, and upon arrival trainees are sized to ensure proper fit.

- [Are cell phones and tablets permitted at camp?](#)

Policy for Usage of Personal Electronic Devices

Guests and trainees at the U.S. Space & Rocket Center are permitted to have cellular phones and other personal electronic devices. However, our goal at Space Camp is to provide the most immersive and authentic experience for all trainees. The usage of these devices must not be disruptive in any way to other guests.

Trainees are permitted to use personal electronic devices during scheduled program down time. If a trainee is causing disruption to other guests while using an electronic device, the U.S. Space & Rocket Center Leadership Team will coach and mentor, and if necessary, contact a parent or chaperone. If the problem persists, the Rocket Center Leadership Team will follow the behavior guidelines, which could result in the removal from program activities.

On-site group chaperones have the discretion to limit usage and the responsibility to monitor personal electronic device activity of a trainee.

The U.S. Space & Rocket Center offers public-access WIFI networks for guests, but please note that limited bandwidth may cause unavoidable limits to WIFI access. In addition, guests must adhere to established standards of conduct on the network. The viewing of inappropriate content is strictly prohibited.

The U.S. Space & Rocket Center is not responsible for lost, stolen or broken electronic devices.

- [Am I required to purchase a flight suit?](#)

flight suits are optional and may be purchased for \$99. Trainees are sized upon arrival to ensure proper fit.

- [What do campers eat during camp?](#)

At the U.S. Space & Rocket Center®, we take the Farm-to-Table movement one step further by featuring a Mars-to-Table experience. Our Camp students may select from a variety of food while viewing the crops growing in our aeroponic gardens. The Rocket Center began this project to illustrate to our guests and Camp students how NASA is experimenting with plant growth in space.

In our Camp Crew Galley, Camp participants select from a variety of foods available in our four food stations.

### **Special Diets**

Our food service department provides a large variety of foods at each meal for trainees. There is a vegetarian line, an entrée line, a sides bar, a large salad bar, and dessert/fruit selections. All of these food items are self-serve in a cafeteria style.

## Can my child bring snacks to Camp?

Trainees are allowed to bring snacks with them to Camp, but food is not permitted in the bedrooms. Snacks will be stored in the bottom of Habitat 1 or at Aviation Challenge, and trainees may come and get their snacks in the morning as they leave the Habitat for the day.

Snacks containing nuts or may contain nuts are not allowed at Space Camp and will be immediately discarded without reimbursement.

\*While we make every effort to ensure that camp areas such as our Habitats and Camp Galley are a nut-free environment, we cannot guarantee the total absence of nut products on our premises.

## **Q. Please describe the meaning of the STS-107 patch.**

A. The central element of the patch is the microgravity symbol,  $\mu g$ , flowing into the rays of the astronaut symbol. The sunrise is representative of the numerous experiments that are the dawn of a new era for continued microgravity research on the International Space Station and beyond.

STS-107 was a multidiscipline microgravity and Earth science research mission with a multitude of international scientific investigations conducted continuously during the planned 16 days on orbit.

A complete description is available by clicking on the STS-107 Mission imagery link.

## **Q. How does NASA cooperate with other countries in carrying out space projects?**

A. International cooperation has been a fundamental part of NASA since the agency was formed in 1958. Over the years, NASA has signed more than 1,200 agreements with more than 135 countries and international organizations. This cooperation ranges from shared scientific data and joint research to construction of space hardware and orbital rendezvous, like the Apollo-Soyuz docking in 1975 and visits of Space Shuttles to the Russian Mir space station, which began in 1995.

The International Space Station is one of the largest high-tech cooperative ventures ever, with formal participation by the United States, Russia, Canada, Japan and 11 nations of the European Space Agency and Brazil. Joint programs allow each country to contribute its individual expertise. They also foster an increased understanding of different cultures, leading to more peaceful and productive relations between the people of the countries as a whole. In many cases, the pooled resources and shared funding inherent in most international cooperation enable missions that would be too difficult or too costly for nations to accomplish individually.

## **Q. What was the poem that President Reagan read at the memorial service for the Challenger astronauts?**

A. The poem is called "High Flight." It was written by John Gillespie Magee Jr., who was killed in the Battle of Britain at age 19.

Oh, I have slipped the surly bonds of Earth  
And danced the skies on laughter-silvered wings  
Sunward I've climbed, and joined the tumbling mirth  
Of sun-split clouds - and done a hundred things  
You have not dreamed of - wheeled and soared and swung  
High in the sunlit silence. Hov'ring there,  
I've chased the shouting wind along, and flung  
My eager craft through footless halls of air.  
Up, up the long delirious, burning blue  
I've topped the windswept heights with easy grace

Where never lark, or even eagle flew  
And, while with silent, lifting mind I've trod  
The high untrampled sanctity of space,  
Put out my hand, and touched the face of God.

**Q. Where can I get an address for Space Camp?**

A. Here at Kennedy Space Center we offer spring and summer camps called Camp Kennedy Space Center. You can write to them at the address below or visit the website.

Camp KSC  
c/o DNC Parks and Resorts at KSC, Inc.  
Mail Code: DNPS  
Kennedy Space Center, FL 32899  
Camp Kennedy Space Center

Space Camp, Space Academy, Space Camp Robotics and Aviation Challenge are weeklong, overnight programs offered January through November at the U.S. Space & Rocket Center in Huntsville, Alabama. For more information on the programs for children, families, adults and educators, visit [www.spacecamp.com](http://www.spacecamp.com) or contact:

U.S. Space & Rocket Center  
One Tranquility Base  
Huntsville, AL 35807  
1 800-63-SPACE (1-800-637-7223) or 256-837-3400