

AERIONE BHARAT

A central image of an astronaut in a white space suit with a clear helmet, floating in space against a starry background. The astronaut's suit has a small American flag patch on the right shoulder.

# 3-DAY RESORT ROCKETRY

## Executive Summary

Elevate your understanding of the cosmos with an unparalleled educational journey that seamlessly blends rigorous STEM learning with a premium resort experience.

The **Aerione Bharat 3-Day Resort Rocketry Course** is a unique program designed to inspire space pioneers of the future through hands-on discovery and expert-led instructions. We open the door for students and families to transcend traditional learning models and experience the universe like never before.



# EVENT HIGHLIGHTS

## Hands-on Rocketry Fundamentals

A collaborative experience where parents and children (a group of 3) work together to build and launch an operational rocket, providing practical mastery of rocketry and aerospace fundamentals.

## Interaction with Experts from the Aerospace Industry

Inspirational session featuring distinguished ISRO and Russian scientists, offering real-world perspectives on space science, research and career paths.

## Night Sky Exploration with Live Simulated Sky Gazing

Professional-grade, simulated telescope stargazing session and in-depth astronomy classes focused on revealing unknown facts about the universe.

## Engaging STEM Curriculum

Interactive learning and stat-based activities designed to make complex scientific and engineering principles accessible and exciting for all ages.

## Premium Resort Experience

Full-board stay at a 4-star resort, including premium accommodation, all meals and access to amenities such as the swimming pool and recreational games.

# EVENT FLOW

## DAY 1

### **Fundamentals - Rocket Anatomy** (11:30 AM - 1:30 PM)

Aerione Bharat mentors lead the foundational study on Rocket Anatomy

### **Fundamentals** (2:30 PM - 3:30 PM)

Continuation of foundational rocketry principles

### **STEM Experiment** (3:30 PM - 4:00 PM)

Demonstration launch of an Ancient Technology-based 4-inch Rocket

### **Astronomy Expo Pt. I** (7:30 PM - 8:30 PM)

A comprehensive class exploring unknown facts about the universe

### **Late Night** (11:00 PM - 4:00 AM)

Live Simulated Sky Gazing Session, contingent on optimal astronomical viewing conditions (Optional)

## DAY 2

### **Keynote Address (11:00 AM - 1:30 PM)**

A high-level discussion led by ISRO/Russian scientists focusing on **Rocket Static Study and Launch Dynamics**

### **Static Study (2:30 PM - 4:00 PM)**

A hands-on static study workshop conducted in the resort's lawn area, providing practical examples of pre-launch structural analysis

### **Astronomy Expo Pt. II (7:30 PM - 8:30 PM)**

Continuation of exploration of the cosmos

### **Late Night (11:00 PM - 4:00 AM)**

Live Simulated Sky Gazing Session, contingent on optimal astronomical viewing conditions (Optional)

### **Morning Session (11:00 AM - 1:30 PM)**

Final Preparation for Rocket Launch

### **Afternoon Session (2:30 PM - 4:00 PM)**

Official Closing Ceremony  
&  
Distribution of Certificates

## DAY 3



## Logistics and Participation

### Accommodation

Premium 4-Star Resort accommodation with family rooms and full amenities

### Catering

Three full meals and daily snacks are provided

### Target Participation

Structured for family engagement, accommodating 3 members per family (e.g., two parents and one child; one parent and two children)

### Certification

All participants will receive an official 3-Day Course Completion Certificate from Aerione Bharat

## Why Resort Rocketry?

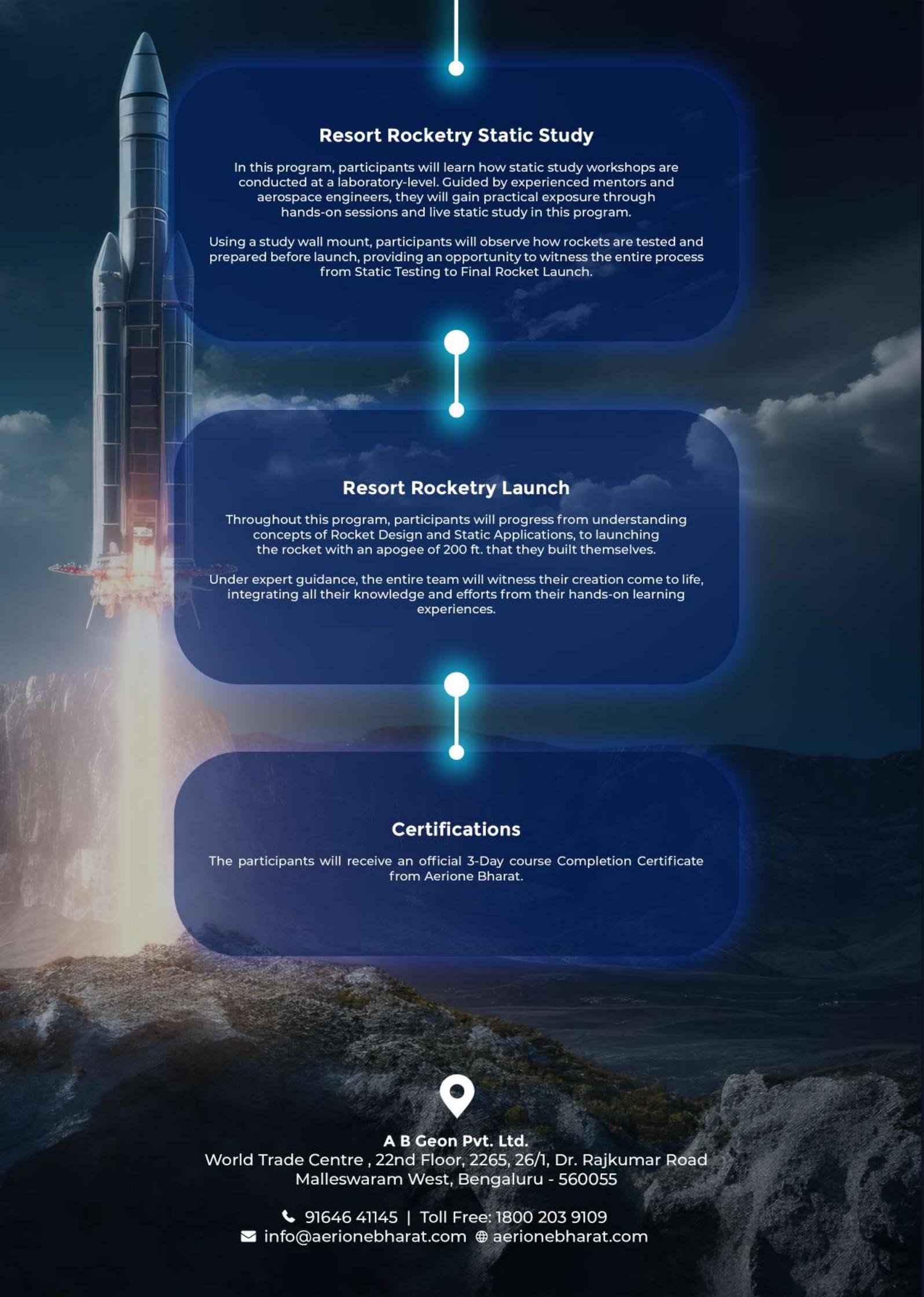
Students learn Physics and Chemistry from their textbooks; we translate that theoretical learning into practical experience by offering them hands-on activities.

Through this program, participants will discover how the laws of Physics and principles of Chemistry are applied by rocket industries such as ISRO, NASA and others.

## What is Resort Rocketry?

Usually, students are introduced to Rocket Technology during their degree(s). In European and American countries, Rocket Science and Space Technologies are commonly taught to students and they are encouraged to launch rockets and space probes. In India, it is rarely seen that students get into Rocket and Space Technology at community-level.

Aerione Bharat aims to create national and global interest in Space Technology among students. We are igniting an educational-level **Resort Rocketry Program**, where we build a rocket with an apogee of 200 ft., which offers hands-on learning, static study and a rocket launch experience.



## Resort Rocketry Static Study

In this program, participants will learn how static study workshops are conducted at a laboratory-level. Guided by experienced mentors and aerospace engineers, they will gain practical exposure through hands-on sessions and live static study in this program.

Using a study wall mount, participants will observe how rockets are tested and prepared before launch, providing an opportunity to witness the entire process from Static Testing to Final Rocket Launch.

## Resort Rocketry Launch

Throughout this program, participants will progress from understanding concepts of Rocket Design and Static Applications, to launching the rocket with an apogee of 200 ft. that they built themselves.

Under expert guidance, the entire team will witness their creation come to life, integrating all their knowledge and efforts from their hands-on learning experiences.

## Certifications

The participants will receive an official 3-Day course Completion Certificate from Aerione Bharat.



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