



HEXAGON +



**BRS-Labs**  
Brilliant Remote Sensing Labs

Training partner

# K12 Space Science & Satellites Academy

## School Program

The program includes a wide range of knowledge & practical assignments on:

- Space & Satellite Technology
- Remote Sensing & Geospatial tools
- Satellite Image Visual Interpretation
- Satellite Image Processing



# Become a Certified Space & Satellite Technology School



Convert your Computer or IT Lab into  
a Space & Satellite Technology Lab!!



**K12 Space Science  
& Satellites Academy**  
[k12-space-academy.com](http://k12-space-academy.com)  
[info@k12-space-academy.com](mailto:info@k12-space-academy.com)



Do you know the benefits that will be gained by your school and students when joining the “K12 Space & Satellite Technology Educational Program”?

These benefits include educational, financial, and positive reputation benefits offered to schools from all over the world. The program targets the ages of 10 to 16 years old to let them prepare for their future career in both Space & Geospatial Technology. It is offered by the K12 Space Science & Satellites Academy website ([k12-space-academy.com](http://k12-space-academy.com)) using both Hexagon Geospatial Software and the Egyptian Space Agency educational satellite technology. The following paragraphs introduce you to [Benefits to Students – Benefits to Schools – How to become a Certified Space Technology School and gain these benefits – Finally, Who are we?].



### First, Benefits to Students:

- Learning and applying practical assignments on Space and Satellite Technologies, Satellite Image Interpretation, Remote Sensing and Satellite Image Processing.
- Early preparation for students' future career in both Space Technology and Geospatial Technology jobs available on websites recommended by us on our homepage.
- Benefit from their activity time / free time / or holiday time in learning one of the 21st Century skills and technologies.
- Enable them to start preparing their CV right now, and enrich it with Space related courses and certificates, through studying one or all of the following courses: [Certified Junior Astronaut (Focusing on space technology) - Certified Junior Satellite Image Analyst & Interpreter - Certified Junior Satellite Image Processing & Remote Sensing Specialist].
- The courses are delivered as recorded video tutorials through [k12-space-academy.com](http://k12-space-academy.com) and each course can be studied online in an average of 8 to 10 days and has an online exam monitored and corrected by us, in addition to a digital certificate verified by QR code.
- Enable students to understand the qualifications needed by the space jobs' market published in Space Career websites, So, they will be able to plan their future advanced studies, then select the most appropriate college degree to enhance their CV and become qualified to apply in these jobs in international organizations.

### Second, Benefits to Schools:

- Being recognized among other schools as a pioneer in offering one of the 21st Century skills and technologies.
- Receiving our “Certified Space Technology School” Certificate, and being advertised by us as a space school in our K12 Space Academy website and our global geospatial education website (The Remote Sensing Portal).
- Gaining additional opportunities for your school to appear in search engines such as Google, Yahoo, Bing and others through our listing and having a full page for your school in our previously mentioned educational websites in addition to our official social media pages.
- Optional possibility upon request, to convert the computer or IT lab in your school to become a Space Technology Lab in addition to IT.
- Adding a financial margin/profit for schools, by getting extremely discounted prices from us offered only for schools. Check the discounted schools prices at: <https://k12.remote-sensing-portal.com/pages/school-program2/>
- Certificates offered to students or schools have Hexagon Geospatial's logo, where Hexagon is the world leader company in Satellite Image Processing Software and Geospatial Technology, and we are proud to be their “Developing Education Partner”.
- Gaining positive global reputation and competency among other schools by teaching Space Technology.
- There is no heavy burden on schools, since the study is entirely online, and can be made from home, with no effort from the school's teachers. However, there is an optional Possibility to qualify some school teachers to become “Certified Trainers” in Space Technology with a very special price (published on the previous link), in order to teach our courses in class by themselves or to offer support to students if needed.

### How to become a Certified Space Technology School and benefit from our school program?

- Contact us at ([info@k12-space-academy.com](mailto:info@k12-space-academy.com)) and request to enroll in our K12 Space Technology School Program. Let us know the school name and address (& website if exist). We will reply by our simple steps to join.

### Who are we?

Brilliant Remote Sensing Labs “BRS-Labs” is a Global Online Education Developer and Provider. Find more details about us at: <https://k12.remote-sensing-portal.com/pages/about-brs-labs/>



## RTV USK Television Channel Celebrates the Second Certified Space and Satellite Technology School from Eastern Europe



*The official supervisors of the high school “Gimnazija “Bihać” with their students were invited by USK TV channel to speak about our educational program, its benefits, knowledge gained and its effect on the students future career*



*The students with their supervisor are proud of receiving their certificates from Brilliant Remote Sensing Labs after passing the online exams of our school program*

## An Article about our School Program published on Hexagon's Geospatial Division Website



### Hexagon technology helps high school students pave their way for a career in remote sensing, space and satellite applications

BY [MICHAEL ANN LANE](#) ON MAY 11, 2022

Brilliant Remote Sensing Labs (BRS-Labs), Hexagon's Developing Education partner, recently offered their "[K12 Space and Satellite Technology School Program](#)" for high school students from Bosnia and Herzegovina. The program was offered to 57 students from five schools. The students were split into three groups, one for each module, for a competition of which school had the highest number of successful students. The students were excited about the opportunity to gain practical skills.

The program was launched to initiate global training for schools as an extra-curricular practical activity. Ahmed Aly, the school program manager, said BRS-Labs wanted the education platform to introduce the basics of space science, satellites and remote sensing technologies to students 10- to 16-years-old and turn their attention to these fields. This program intends to open students' eyes to the opportunity of acquiring new skills and allows independent experience of satellite imagery processing and analysis. Aly continued, "It enables them not only to understand the basics of these technologies, but also to plan their future career and academic studies step-by-step."

The three certification modules each group studied was a “Certified Junior” level. The courses are [Astronaut, Satellite Image Analyst & Interpreter](#) and [Satellite Image Processing & Remote Sensing Specialist](#). In each course, students are taught the fundamentals of remote sensing and real application of satellite imagery data. Astronaut introduces the basics of Space Science and Technology. Satellite Image Analyst and Interpreter reviews satellite interpretations, analyses, objects identification and characteristics interrelations. Finally, Satellite Image Processing and Remote Sensing Specialist offers [ERDAS IMAGINE](#), Hexagon’s imagery processing and analytics software, through Hexagon’s campus-wide grant program.

The “K12 Space and Satellite Technology School Program” was offered to a total of 57 students from 5 different schools in Bosnia and Herzegovina. The students were grouped into 3 groups where each group studied one certification module. There was a competition to select the school with the highest number of successful students. The winning school was the High School “Bosanska Crupa”. Hence, the school was awarded the “Certified Space & Satellites Technology School” certificate offered by BRS-Labs.



The “Certified Space & Satellites Technology School” certificate offered by BRS-Labs to the winning school.

High school “Bosanska Crupa” won the competition. After students took their online exams, the school hosted a seminar and graduation. Two students demonstrated their skills and knowledge by presenting the program and another interpreted an image from the International Space Station. After these presentations, students were awarded their course certificates and the school was offered its “Certified Space & Satellites Technology School” certificate offered by BRS-Labs.



Amna Dervišagić, the Bosnia and Herzegovina program coordinator, stated the program was a challenge for the students and herself. She noted the hands-on approach was refreshing compared to math or geography. “I hope that my students have found common ground in their future professions and I would like to thank Hexagon and Brilliant Remote Sensing Labs,” Amna said. She continued that the students are proud of their success and school’s new reputation.



*Amna Dervišagić, program coordinator (middle), celebrating the achievement of her students: Amela Arnautović (right), and Erna Halkić (left).*

Amela Arnautović, a well-achieving student, said, “The course was very interesting and easy to understand. I feel like I’ve learned a lot. I’m thankful for the opportunity to take the course and I’m sure it will aid me in the future.”

Erna Halkić, an accomplished program student, noted how interesting the program was and how the videos and pictures helped her digest the information. She enjoyed the open book exam. It wasn’t difficult for her and she was impressed with the program’s goal of required understanding as opposed to memory. Erna said, “I would be very glad if such a program is taught in my school as an extracurricular activity or practical module. I am glad to have participated in a program like this.”

BRS-Labs is a global education developer. They designed the “[K12 Space Science and Satellites Academy](#)” website based on their own learning management system, originally used with their “[Remote Sensing Portal](#)” education platform. The recorded video lectures are always accessible, the exams happen three times a week to accommodate time zones and are overseen using webcams. The system also offers fast assistance during exams through a chat tool. BRS-Labs managed the program completely online by providing students technical support, the educational content and ERDAS IMAGINE licenses management.

Ayman Salem, BRS-Labs' Executive Director, is excited about the program's success with its first school deployment. He wants to reach out to students globally to offer the enlightening material as an introduction to modern skills and technologies. He said, "We welcome cooperation with any organization wanting to become an education partner to achieve a similar success story."



*The Students presenting and explaining what they have learned from our Space Science and Satellites school program*

A nice aspect of this program is that the main players are from three different countries: Hexagon from the USA, BRS-Labs from Egypt and High school "Bosanska Krupa" from Bosnia and Herzegovina. The program was completely managed online. This success exemplifies new norms in delivering education, practical training, testing and certification, where the service can be offered regardless of any geographic distances and time constraints.

All program administrators are excited about its success. The students are glad they participated. Ahmed Aly also followed-up to share students are being shown current space and geospatial technology job postings with their qualifications. These career websites are recommended on the [K12 Space Science and Satellites Academy](#) homepage and will help students use program knowledge to manage their academic and working careers.

BRS-Labs, as a global education developer, designed the "K12 Space Science and Satellites Academy" website based on their domestically developed Learning Management System (BRS-Labs LMS) that was used originally with their prime education platform, the "Remote Sensing Portal". The content, in the form of recorded video lectures, can be accessed anytime anywhere. The online exams take place three times a week to match different time zones. They are monitored in real-time using webcams. The exams system offers timely assistance to students via exam chat tool. BRS-Labs managed the program completely online and provided technical support to the students with the educational content and ERDAS IMAGINE licenses management. While Hexagon provided access to the ERDAS IMAGE license through the Campus-wide grant program.

A nice aspect of this program is that the main players are from three different continents. Hexagon from North America (USA), BRS-Labs from Africa (Egypt), and the High School “Bosanska Krupa” from Europe (Bosnia and Herzegovina). Yet, the program was fully successfully managed online from start to end. This represents a tangible example of the new norms in delivering online education, practical training, testing and certification worldwide, where the service can be offered globally, timely, and regardless of any geographic distances and constraints.

### Samples from Certified Junior Astronaut Certificate.





Samples from Certified Junior Satellite Image Analyst & Interpreter Certificate.



Samples from Certified Junior Satellite Image Processing & Remote Sensing Specialist Certificate.







**Brilliant Remote Sensing Labs**  
**Global Online Education Developer**

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