البرنامج البحثي Fold K Research Program

Program Profile

فلك لعلوم وأبحاث الفضاء FALAK FOR SPACE SCIENCE AND RESEARCH





"I have aspirations that I share with you, and soon, with God's will, Falak will become the foremost organization in this field in the Arab world."

His Royal Highness Prince Sultan Bin Salman Bin Abdulaziz Saudi astronaut, and the Special Advisor to the Custodian of the Two Holy Mosques, during His Highness's meeting with Falak's team.

Program Profile





About the program

A program that targets empowering 20 middle and high school students in space science and engineering through research opportunities, in collaboration with specialized experts to conduct scientific research over a span of four months. The program aims to develop research skills and create a network of connections with experts, thereby motivating participants to pursue their educational and professional paths in space-related fields.

Strategic Partners







موهبة

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Program objectives

01 Develop Research Skills

Enhance research skills among students and produce novel research that drives national innovation in the fields of space sciences and technologies.

03 Boost Interest in the Field of Space

Motivate students to engage in creative thinking and innovation within the priorities of the space sector, encouraging persuits of education and career paths within this promising sector.

02 Foster Scientific Networking

Establish a platform that enables students to directly engage with esteemed experts and researchers, fostering advanced scientific interactions and knowledge sharing.

04 Enhance Awareness of Space Challenges

Expand students' awareness of key global challenges in the space sector, such as space debris management and sustainable space exploration.

05 Increase the Participation of Space Research in the Ibdaa Olympiad

Boost the number of participants for the National Scientific Creativity Olympiad (Ibdaa) with space science and engineering projects, in line with the Kingdom's growing interest in space research. This will lead to an increase in the number of Saudi participants in international events and science exhibitions.

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Program Structure

We are seeking passionate experts to guide the next generation of space pioneers. Our program offers 20 research positions, pairing each two students with a mentor to conduct independent research projects in astronomy and space science or space engineering and technologies. You will provide expert guidance, supervise research, and participate in interactive activities that empower student exploration throughout a four-month program.

Stage	Activity/Event
First	Virtual orientation sessions on the nature of scientific research in spa
Second	Virtual weekly supervision sessions between the student and the mentor to
Third	Conclusion through an event that will allow students to present their resea





Logical framework

Inputs	Activities	Outputs	Matter of Course	Impact		
 Space experts and specialists. Fully equipped virtual platform. Volunteers. Project-specific simulation programs 	 Simulation trials. Orientation sessions. Direct mentorship sessions with space researchers. 	 The first Saudi space research mentorship program. 20 program graduates. 20 research works. 3 induction sessions. 32 mentorship sessions. 1 in-person presentation event. Website page showcasing batch achievements, their research, and brief bios. 	 Enhance participants' awareness, knowledge, and understanding of space sciences. Empower participants with the fundamentals of scientific research and the creation of original scientific content. 	 Space Science and Technology Outreach for Youth Empowering a generation of pioneers in space science and technology research and innovation. 		
 5 peer and advisor reviews to gain a comprehensive view of individual performance. 3 performance indicators to measure the alignment of simulation results with expected research goals. Increase the accuracy of the simulations and their impact to 60%. 	 Implement activities according to the timeline. 	 Measuring the participation rate of program participants. Minimum attendance rate of 75% for each participant, Executing 80% of the educational content. Completion of 80% of program participants. Launching a webpage dedicated to the program. 	 Increase the level of space-related knowledge and skills among pre- and post-test participants by 30%. Increase the percentage of knowledge of professional skills and scientific research to 30%, which is measured by evaluating their scientific research after the program. 	• Participation of 15 program graduates in the top 10 leading research conferences and competitions in the Kingdom, such as the National Olympiad for Scientific Creativity.		



High-level timeline

	QUARTER 1		QUARTER 2			
	JAN	FEB	MAR	APR	ΜΑΥ	JUN
Initiating Falak's Research Program						
Program Announcement and Applications						
Finalization of the Student selection and Connecting Them to Their Supervisors						
Conducting Virtual Orientation Sessions						
Active Research Mentorship						
Consultants' Evaluation Sessions						
Program Team Evaluation Sessions						
Closing Ceremony						
Follow-up						
Writing the Final Report of the Program						







Program Director



Project relevance:

- Board member at Falak.
- Managed science outreach at the Saudi Youth Space Association.

- Area of expertise: Research and development in space science and its applications.
- Project relevance:

Ayoub Alsubehi Project Advisor







Field of expertise: Physics and Astronomy.

- **Project relevance:**

Jana Alfarsi Content Coordinato



- Joud Alamri Partnerships Coordinator

Space Engineering. Project relevance:

Program Profile

Team of the Program

البرنامج البحثي Foldk Research Program

- Represented the kingdom at ISEF for two consecutive years with research
- in the category of Physics and Astronomy.

- Founder and Vice Chairman at Falak for Space Sciences and Research.
- 5 years of experience in managing space projects.
- Researcher in space medicine.

Area of expertise:

- Sustainable projects in the non-profit sector.
- Project relevance:
- Financial advisor to Falak.
- Board member with over 10 years of experience in the non-profit sector.

- Led a team in NASA's Space Apps Hackathon for providing space solutions. • Participated in the Health for Earth and Space program organized by Falak.
- Volunteered in the Mawhiba's summer program in the Physics department.

Field of expertise:

- Designed a Payload for a Lunar Mission.
- Coordinated sponsorships for the Spring Institute for Forests on the Moon.



Benefits for Research Mentors

Access to Specialized Programs The mentors will receive an offer to leverage Misk Foundation's professional programs through the Youth Impact Council.

Gain Priority in Falak's Programs

The mentors will have the priority of participating in upcoming Falak programs such as training, research fellowships, or being part of experiments that will be sent to the International Space Station.

Professional Opportunities

We will share the mentor's CV on the program's report and with stakeholders within and outside the Kingdom.

Join Falak's Community The mentors will gain the benefits and opportunities offered to Falak's community members.



Falak A Community Connected to the Universe

For more information

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