

SAUDI ARABIA SCIENCE TEAM ARRIVES HOME AFTER TOP HONOR AT REGENERON CONTEST IN US Page 4

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Dul Qaada 2, 1444 www.arabnews.com **OPINION** THE JEDDAH DECLARATION SHOWS SAUDI ARABIA'S SERIOUSNESS



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The Voice of a Changing Region



eral, Florida. During an eight-day stay on the ISS, the ast

GUARDIANS OF THE GALAXY

Ax-2 mission carrying Saudi astronauts blasts off for ISS

The launch from NASA's Kennedy Space Center represents a huge milestone for the Kingdom

Saleh Fareed Jeddah

Axiom Space's second private astronaut Mission 2 successfully blasted off from NASA's Kennedy Space Center in Florida early Monday morning to the International Space Station, carrying a four-person crew on the SpaceX Dragon Endeavour.

The quartet departed on a SpaceX Dragon capsule that was propelled by a Falcon 9 rocket. Both the first stage and the Dragon separated without issue. The crew is led by Commander Peggy Whitson, pilot John Shoffner and mission special-John Shohner and mission special-ists Ali Alqarni and Rayyanah Bar-nawi of Saudi Arabia. They plan to undock from the ISS on May 30 for a fiery plunge back to



This mission not only includes the first female astronaut and the second male astronaut but is helping achieve the goals of Vision 2030.

Princess Reema bint Bandar Saudi ambassador to the US

Earth and splashdown off the coast

During an eight-day stay on the ISS, they plan to carry out 20 research projects — 14 of them developed by Saudi scientists - ranging

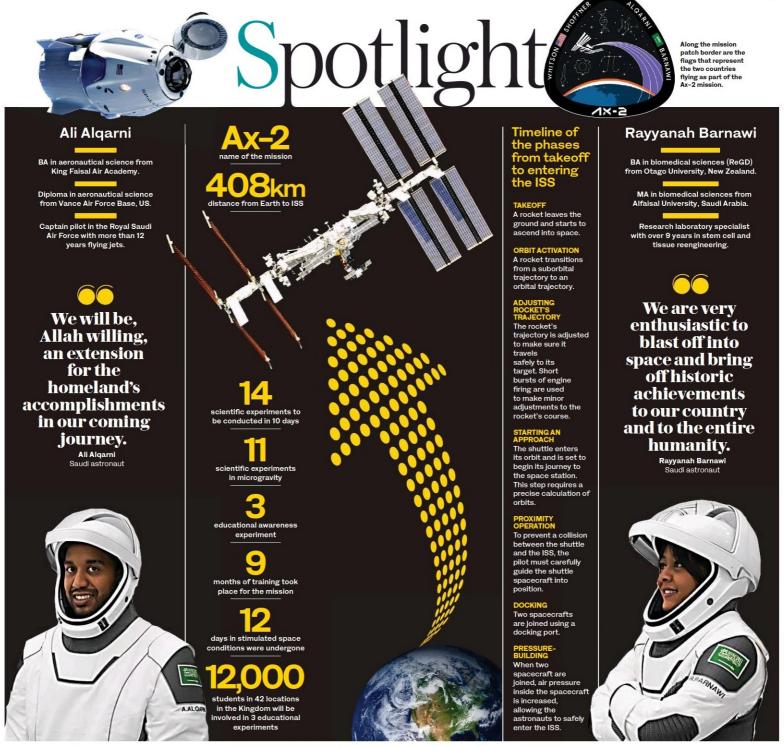
oped by Saudi scientists — ranging from human physiology and cell bi-ology to technology development. The crew will also conduct tech-nology demonstrations to improve onboard communication and im-

age transferring, explore the use of computer vision applications for inventory management, and better understand odors in a pressurized environment.

The launch represents a huge milestone for the Kingdom as Barnawi, a breast cancer re-searcher, makes history as the first Saudi female astronaut to go to space. Alqarni is the second Saudi male astronaut to do so.

The Kingdom's Ambassador to the US Princess Reema bint Bandar, who attended the launch of Ax-2, tweeted: "This mission not only includes the first female astronaut and the second male astronaut but is helping achieve the scientific goals of Vision 2030."

Spotlight Page 3



Saudi astronauts land among the stars

Rayyanah Barnawi and Ali Algarni will work on International Space Station during 10-day mission

Saudi astronauts Rayyanah Barnawi and Ali Alqarni have embarked on the Axiom Mission 2 to the AXIOM MISSION 2 to the International Space Station after blasting off in a SpaceX Falcon 9 rocket from the Kennedy Space Center in Florida.

Barnawi, who is the first Arab woman to reach orbit, graduated from the University of Otago, New Zealand with a BA in biomedical sciences, and obtained a master's degree in biomedical sciences from

degree in biomedical sciences from Alfaisal University.

In working as a research laboratory specialist, Barnawi has more than nine years of experience in stem cell and tissue re-engineering. "We are very enthusiastic to blast off to space and bring historic achievements to our country and humanity," said Barnawi.

Algarni graduated from King Faisal Air Academy with a BA in aeronautical science and obtained a diploma in aeronautical science

a diploma in aeronautical science Vance Air Force Base in the US.

He is a captain in the Royal Saudi

Air Force with more than 12 years of experience as a jet pilot. "We feel proud and excited because it will be our first time going to the Interna-tional Space Station," he said.

The astronauts are scheduled to conduct 14 experiments during their 10-day stay. Eleven are on microgravity, including the effects on the brain and eyes, and three are educational awareness experiments with the involve-

experiments with the involve-ment of 12,000 students from across the Kingdom.

They are joined on ISS by Ameri-cans commander Peggy Whitson and pilot John Shoffner.

cans commander Peggy Whitson and pilot John Shoffner.

Before blasting off, the Saudi astronauts were put through intensive training for nine months at Axiom Space and SpaceX, NASA Johnson Center, SpaceX headquarters in Hawthrone, California, Japanese Aerospace Exploration Agency, and the European Space Agency.

They also spent 12 days in simulated space conditions, learning about weightlessness and practicing to float, communication skills while in orbit, expeditionary skills and the possible side effects of spaceflight.

Their mission is the first in the Kingdom's Human Space Flight

Kingdom's Human Space Flight program, which was launched by the Saudi Space Commission and will pave the way for a sustainable program by sending future Saudi astronauts on long-stay missions to conduct more research and expand the Kingdom's contribu-

The HSF program furthers the



The Ax-2 mission crew, at the Falcon 9 launch station, (from left to right): Rayyanah Barnawi, Peggy Whitson, John Shoffner, and Ali Alqarni. Twitter/saudispace

HIGHLIGHTS

- The Kingdom is committed to supporting space exploration and enhancing the role of Saudis in space and technology
- The Ax-2 is the first in the Human Space Flight program which was launched by the Saudi Space Commission.
- The mission will pave the way for a sustainable program by sending future Saudi astronauts on long-stay missions to conduct more research and expand the Kingdom's contributions to science.

Vision 2030 plan by increasing the knowledge and technical skills of Saudis, diversifying the economy and expanding industry. The focus areas of the research in the HSF program will enable future missions to the Moon and Mars, in addition to physical science, human health, biology, biotechnology, biopharma, earth manufacturing

science, space manufacturing, and technology development. The research opportunities will foster international collaboration, further enhancing the Kingdom's role internationally, the SSC.

five Established less than five years ago in December 2018, the commission represents the Kingdom at international forums, works with government agencies, regulates space activities and policies and promotes research and industrial activities related to space.

Kingdom has further The Kingdom has further committed itself to supporting space exploration and enhancing the role of Saudis in space and technology with the Custodian of the Two Holy Mosques Scholarship program in collaboration with the Saudi Space Commission.

The program offers Saudi students the opportunity to study undergraduate and graduate

undergraduate and graduate degrees in space-related fields at the most prestigious international universities.

The top space majors include astronomy and space sciences, aerospace engineering, astrophysics, general relativity physics cosmology, vehicle design engineering, aeronautics astronautics engineering, e engineering, space law and cost and policies.

"The scholarship opportunities for space-related programs are one of the strategies of the Supreme Committee for Research, Development and Innovation launched by the Crown Prince to enhance the labor market with human cadres," said Amal Shuqair, the deputy minister of Education for Scholarship.

The Kingdom's interest in space goes back to 1977, when the Saudi government established the Saudi Arabian National Center for Science and Technology, which conducted applied scientific research in several fields including space.

In 1985, when Prince Sultan bin Salman traveled to space to

launch the second Arab satellite, the center's name was changed to King Abdulaziz Center for Science and Technology. It then worked to advance the sector and plan for the transfer and localization of satellite technology.

A year after, the Kingdom established the Saudi Center for established the Saudi Center for Remote Sensing, and it also estab-lished the Space and Aviation Research Institute at the King Abdulaziz City for Science and Technology in 1997.

The Kingdom also succeeded in launching 16 Saudi satellites from 2000 to 2019, providing commu-

nication in semi-remote areas.

The last launch sent the Saudi Geostationary Satellite 1, which was developed by a team from King Abdul Abdulaziz City for Science and Technology.

The satellite provided telecommunications capabilities, stronger internet, connectivity, and TV.

internet connectivity, and TV and secure communications in the Middle East, North Africa,