Hi I'm Zahrya at NASA's Kennedy Space Center and I'm taking you Inside KSC.

A new shipment of cargo for the International Space Station took flight aboard a SpaceX Falcon 9 rocket with a spectacular liftoff July 18 at 12:45 a.m. Eastern time.

A few minutes after the launch of the SpaceX CRS-9 mission, the rocket's spent first stage flew back to a successful landing. Meanwhile, the company's Dragon spacecraft continued on its path, carrying almost 5,000 pounds of materials including several science payloads.

One, the Biomolecule Sequencer, will test a tiny device designed to monitor and identify microbes on spacecraft by sequencing the germs DNA.

OsteoOmics will help scientists study the mechanisms of bone loss both on Earth.
and in space

while the Heart Cells investigation studies how microgravity changes the human heart.

Looking to the future, the Phase-change Heat Exchanger flying on CRS-9 could help stabilize future spacecraft against extreme temperatures in space.

and the International Docking Adapter will allow visits from a variety of future vehicles,

including Boeing's CST-100 Starliner and SpaceX's Crew Dragon spacecraft,

which will return astronauts to low-Earth orbit in partnership with NASA.

And remember Spaceport Magazine digs deeper Inside KSC.