Drawing from more than 50 years of spaceflight research and development, the Orion spacecraft is designed to meet the evolving needs of our nation’s beyond low Earth orbit space exploration program for decades to come.

Orion features dozens of technology advancements and innovations that have been incorporated into the spacecraft’s subsystem and component design. The Orion spacecraft includes both crew and service modules, a spacecraft adaptor, and a revolutionary launch abort system that will significantly increase crew safety.

Orion’s unique life support, propulsion, thermal protection and avionics systems in combination with other deep space elements will enable extended duration deep space missions. These systems have been developed to facilitate integration of new technical innovations as they become available in the future.

Orion is capable of transporting astronauts on a variety of expeditions beyond low Earth orbit – ushering in a new era of space exploration.