

Microgravity Research Flight Services Market to Reach USD \$3.32 Billion by 2029 at 14.2% CAGR

*The Business Research Company's
Microgravity Research Flight Services
Global Market Report 2025 – Market Size,
Trends, And Global Forecast 2025-2034*

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KINGDOM, October 1, 2025

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Estimated Industry Size Of [Microgravity
Research Flight Services Market?](#)

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The market size for microgravity research flight services has exponentially expanded in the past few years. It projects an increase from \$1.70 billion in 2024 to \$1.95 billion in 2025, with a Compound Annual Growth Rate (CAGR) of 14.6%. The unprecedented growth during the past era

can be associated with the escalating demand for microgravity applications in the pharmaceutical and biotechnology sectors, burgeoning curiosity in parabolic flight experiences, enhancing partnership between governmental bodies and commercial ventures, increased fascination in manufacturing and materials research based in space, and the growing accessibility of commercial microgravity research services.

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The market for microgravity research flight services is projected to witness swift expansion in the coming years, with a projected value of \$3.32 billion in 2029, exhibiting a

compound annual growth rate (CAGR) of 14.2%. This expansion in the predicted period can be credited to several factors such as the rising commercial activities within the Low Earth Orbit (LEO), escalating demand for satellite experimentation and verification in microgravity conditions, increased interest in space-centric educational and outreach initiatives, augmented funding for microgravity trials and payload operations, and growing requirements for space-oriented environmental scrutiny and data gathering. Dominant trends during the forecast period involve progress in reusable spacecraft technology, sophisticated sensor assimilation for

accurate data procurement, development in miniaturized experimental payloads, progression in suborbital flight competences, and innovative, affordable microgravity examination podiums.

Download a free sample of the microgravity research flight services market report:

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What Are The Major Factors Driving The Microgravity Research Flight Services Global Market Growth?

The growth of the microgravity research flight services market is anticipated to be driven by the escalating investments in space missions. These missions are orchestrated activities that happen in outer space, utilizing spacecraft or satellites, with objectives set out to explore and study celestial bodies or carry out scientific, commercial, or militaristic operations. The primary driving force behind increasing investments in space missions is the quest for scientific discovery to broaden human understanding of the universe and its inherent phenomena. More investments in space missions mean more opportunities for microgravity research flight services, by offering more platforms, funding, and cutting-edge technology to carry out crucial experiments in unparalleled orbital settings. For instance, the Ministry of Foreign Affairs and Trade, a government department based in New Zealand, disclosed in June 2024 that the UK pledged to invest approximately USD 12.5 billion (£10 billion) in space initiatives throughout the decade commencing in 2023, with around USD 3.75 billion (£3 billion) earmarked in the 2023 spending review. Hence, the swelling investments in space missions are promoting the growth of the microgravity research flight services market.

Who Are The Leading Companies In The Microgravity Research Flight Services Market?

Major players in the Microgravity Research Flight Services Global Market Report 2025 include:

- Airbus Defence and Space GmbH
- Space Exploration Technologies Corp.
- Blue Origin LLC
- QinetiQ Group plc
- Redwire Space Inc.
- Svenska Rymdaktiebolaget (SSC) AB
- Axiom Space Inc.
- World View Enterprises Inc.
- Varda Space Industries Inc.
- Loft Federal LLC

What Are The Main Trends, Positively Impacting The Growth Of Microgravity Research Flight Services Market?

Firms at the forefront of the microgravity research flight services industry are harnessing groundbreaking technologies, including powder-based 3D printing, to enable ongoing manufacturing operations in space. The process of powder-based 3D printing builds objects layer by layer by merging or bonding fine powders, thus facilitating quick prototyping, complex geometric designs, custom-made manufacturing, and minimizing material waste. For example, in

May 2023, German Aerospace Center (DLR), a governmental agency of Germany, marked the successful launch of the MAPHEUS-13 rocket from the Esrange Space Center, intended for conducting microgravity experiments, notably the testing of a powder-based 3D printer in space. The aim of this experiment was to assess the viability of manufacturing metal components under reduced gravity, a crucial step towards sustainable manufacturing in potential future habitats on the moon or Mars. In addition to 3D printing, the mission was packed with other experiments exploring the influence of microgravity on core physical processes, including the interaction of liquid metals and the functioning of brain cells at the cellular and genetic level. The MAPHEUS mission, by merging practice-based and core science research, furthers the comprehension of physics and biology in outer space while offering vital insights into the technological requirements for extended human habitation beyond Earth.

What Are The Primary Segments Covered In The Global Microgravity Research Flight Services Market Report?

The microgravity research flight services market covered in this report is segmented

- 1) By Service Type: Parabolic Flight Services, Suborbital Flight Services, Orbital Flight Services
- 2) By Platform: Manned, Unmanned
- 3) By Application: Scientific Research, Commercial Research, Educational, Aerospace And Defense, Pharmaceuticals, Other Applications
- 4) By End-User: Government Agencies, Research Institutes, Commercial Enterprises, Other End-User

Subsegments:

- 1) By Parabolic Flight Services: Single Parabolic Flights, Multiple Parabolic Flights, Extended Parabolic Campaigns
- 2) By Suborbital Flight Services: Suborbital Research Missions, Suborbital Tourism Flights, Suborbital Technology Demonstration Flight
- 3) By Orbital Flight Services: Short-Duration Orbital Missions, Long-Duration Orbital Missions, Commercial Cargo Orbital Flights, Commercial Crew Orbital Flights

View the full microgravity research flight services market report:

<https://www.thebusinessresearchcompany.com/report/microgravity-research-flight-services-global-market-report>

Which Region Is Forecasted To Grow The Fastest In The Microgravity Research Flight Services Industry?

For the 2024 period, North America led the global microgravity research flight services market in size, while Asia-Pacific is predicted to experience the most rapid growth in the upcoming forecast. The Microgravity Research Flight Services Global Market Report 2025 incorporates data from regions such as Asia-Pacific, Western Europe, Eastern Europe, North America, South America, Middle East, and Africa.

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Speak With Our Expert:

Saumya Sahay

Americas +1 310-496-7795

Asia +44 7882 955267 & +91 8897263534

Europe +44 7882 955267

Email: saumyas@tbrc.info

The Business Research Company - www.thebusinessresearchcompany.com

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Oliver Guirdham

The Business Research Company

+44 7882 955267

info@tbrc.info

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