

Space Farming Equipment Market Size, Share & Trends Analysis Report By Product

The Business Research Company's Space Farming Equipment Market Size, Share & Trends Analysis Report By Product

LONDON, GREATER LONDON, UNITED KINGDOM, October 7, 2025

/EINPresswire.com/ -- "Get 30% Off All Global Market Reports With Code ONLINE30 – Stay Ahead Of Trade Shifts, Macroeconomic Trends, And Industry Disruptors

The Business
Research Company

The Business Research Company



What Is The [Space Farming Equipment Market](#) Size And Growth?

The market for space farming equipment has seen a swift expansion in recent years. The market

“

It will grow to \$3.25 billion in 2029 at a compound annual growth rate (CAGR) of 16.6%.”

*The Business Research
Company*

value is predicted to escalate from \$1.50 billion in 2024 to \$1.76 billion in 2025, signifying a compound annual growth rate (CAGR) of 17.0%. This historical growth attributes to surge in government sponsorship for space farming studies, elevated funds in space organizations and educational institutions, an escalation in plant growth experiments on the international space station, an intensified emphasis on technologies related to controlled environment agriculture, and an increase in private capital

in space exploration initiatives.

Expectations are high for a rapid expansion in the space farming equipment market in the coming years. The market value is projected to reach \$3.25 billion by 2029, marking an impressive 16.6% compound annual growth rate (CAGR). The predicted upsurge during the forecast period is due primarily to growing fascination towards extraterrestrial colonization and extended space missions, increased demand for self-reliant and sustainable food production in outer space, commercial use of space farming technologies on our planet, escalating investment by private space corporations and heightened worldwide awareness of issues concerning food security and sustainability. Forthcoming trends within the forecast period comprise advancements in hydroponic and aeroponic farming technologies, innovation in climate control and LED lighting systems, the inclusion of AI and robotics in farming procedures, the creation of

bioregenerative life support solutions, and progression in the design of modular and portable farming equipment.

Download a free sample of the space farming equipment market report:

<https://www.thebusinessresearchcompany.com/sample.aspx?id=27887&type=smp>

What Are The Current Leading Growth Drivers For Space Farming Equipment Market?

The escalating focus on sustainable and self-reliant agricultural strategies is set to drive the expansion of the space farming equipment sector. Such strategies are geared towards food production with minimal harm to the environment and reduced dependence on external supply chains. The growing focus on these strategies is a result of worldwide programs aiming to change food systems, with governments and involved parties striving to build resilience against climate change and rapid population growth. Space farming equipment facilitates sustainable and self-reliant food production by making controlled-environment farming viable in space and under harsh conditions, thus providing adjustable solutions for future food security. For example, as per the European Court of Auditors, a Luxembourg based government entity, the plan is to convert 25% of the European Union's agricultural land into organic farmland by 2030, which is a significant rise from the 10.5% in 2022. Hence, the heightened attention towards sustainable and self-reliant food production is stimulating the growth of the space farming equipment sector. The increasing enthusiasm towards space exploration is expected to stimulate the expansion of the space farming equipment sector. Space exploration involves examining and understanding space bodies and phenomena beyond our planet using spacecraft, telescopes, and manned missions. The rising enthusiasm for space exploration is due to evolving technologies and reduced launching costs, thus presenting commercial opportunities, scientific discoveries, and strategic benefits, and motivating both governments and private firms to allocate substantial resources towards space activities. Space farming equipment enhances extensive space exploration by supplying fresh food, recycling nutrients and reducing dependence on terrestrial supplies. For instance, as stated by the Global Change Data Lab, a UK based non-profit research organization, in 2023, 2,895 objects were launched into orbit, which is higher compared to 2,477 in 2022. Therefore, the increasing interest in space exploration is augmenting the growth of the space farming equipment sector.

Which Companies Are Currently Leading In The Space Farming Equipment Market?

Major players in the Space Farming Equipment Global Market Report 2025 include:

- Deere and Company,
- Northrop Grumman Corporation,
- National Aeronautics and Space Administration (NASA),
- AGCO Corporation,
- Maxar Technologies Inc.,
- Steadfast Group,
- Sierra Space Corporation,
- Redwire Corporation,
- Orbital Technologies Corporation,

- Astrobotic Technology Inc.

What Are The Key Trends Shaping The Space Farming Equipment Industry?

Leading businesses in the space farming equipment market are concentrating on technological advancements such as robotic microgravity-compatible growth modules. These innovative tools offer complete, sustainable solutions for crop cultivation in space, utilizing robotic technology and special equipment to handle water, nutrients, and environmental factors in a microgravity environment. For example, in April 2024, Vertical Future, a UK vertical farming technology firm, initiated an innovative space farm project. The enterprise is setting up a fully automatic, stacked vertical farming system on the first commercial space station in the world, featuring LED-illuminated growth towers and advanced nutrient delivery mechanisms. This system will foster the growth of fresh fruits, vegetables, and potentially pharmaceuticals in microgravity. The main aim is to facilitate long-duration interstellar expeditions and to glean insights for enhancing sustainable farming practices on our home planet.

How Is The Space Farming Equipment Market Segmented?

The space farming equipment market covered in this report is segmented

- 1) By Equipment Type: Hydroponics Systems, Aeroponics Systems, Aquaponics Systems, Lighting Systems, Climate Control Systems, Others Equipment Types
- 2) By Crop Type: Vegetables, Fruits, Herbs, Others Crop Types
- 3) By Application: Research, Commercial, Others Applications

Subsegments:

- 1) By Hydroponics Systems: Nutrient Film Technique Systems, Deep Water Culture Systems, Ebb And Flow Systems, Drip Systems, Wick Systems
- 2) By Aeroponics Systems: High Pressure Aeroponics Systems, Low Pressure Aeroponics Systems, Fogponics Systems
- 3) By Aquaponics Systems: Media-Based Aquaponics Systems, Nutrient Film Technique Aquaponics Systems, Deep Water Culture Aquaponics Systems
- 4) By Lighting Systems: Light Emitting Diode Grow Lights, Fluorescent Grow Lights, High Intensity Discharge Grow Lights, Induction Grow Lights
- 5) By Climate Control Systems: Heating Systems, Cooling Systems, Ventilation Systems, Humidity Control Systems, Carbon Dioxide Enrichment Systems

View the full space farming equipment market report:

<https://www.thebusinessresearchcompany.com/report/space-farming-equipment-global-market-report>

Which Is The Dominating Region For The Space Farming Equipment Market?

The leading region in the Space Farming Equipment Global Market Report 2025 for the year was North America, and it was the largest in terms of market size. The region projected to experience the most rapid growth is Asia-Pacific. The report includes a detailed analysis of several regions,

namely, Asia-Pacific, Western Europe, Eastern Europe, North America, South America, as well as the Middle East and Africa.

Browse Through More Reports Similar to the Global Space Farming Equipment Market 2025, By [The Business Research Company](#)

Space Ground Station Equipment Global Market Report 2025

<https://www.thebusinessresearchcompany.com/report/space-ground-station-equipment-global-market-report>

Farm Machinery And Equipment Global Market Report 2025

<https://www.thebusinessresearchcompany.com/report/farm-machinery-and-equipment-global-market-report>

Farm Machinery And Equipment Global Market Report 2025

<https://www.thebusinessresearchcompany.com/report/farm-machinery-and-equipment-global-market-report>

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

Follow Us On:

• LinkedIn: <https://in.linkedin.com/company/the-business-research-company>"

Oliver Guirdham

The Business Research Company

+44 7882 955267

info@tbrc.info

Visit us on social media:

[LinkedIn](#)

[Facebook](#)

[X](#)

This press release can be viewed online at: <https://www.einpresswire.com/article/855597896>

EIN Presswire's priority is source transparency. We do not allow opaque clients, and our editors try to be careful about weeding out false and misleading content. As a user, if you see something we have missed, please do bring it to our attention. Your help is welcome. EIN Presswire,

Everyone's Internet News Presswire™, tries to define some of the boundaries that are reasonable in today's world. Please see our Editorial Guidelines for more information.

© 1995-2025 Newsmatics Inc. All Right Reserved.