

Atomic Force Microscopy Market with COVID-19 Impact Analysis, Offering, Grade (Industrial, Research), Application (Material Science, Life Sciences, Semiconductors and Electronics, Academics), and Region - Global Forecast to 2026

<https://marketpublishers.com/r/A495A7395FF4EN.html>

Date: August 2021

Pages: 213

Price: US\$ 4,950.00 (Single User License)

ID: A495A7395FF4EN

Abstracts

The atomic force microscopy market is expected to grow from USD 489 million in 2021 and is projected to reach USD 631 million by 2026; it is expected to grow at a CAGR of 5.2% during the forecast period. Atomic force microscopy is an imaging technique for studying samples by generating images at an ultra-high resolution. It is an empowered technology that is vital for the measurements of minute samples with a substantial degree of accuracy. Currently, a collaboration between government-sponsored researchers and private firms is becoming vitally important for the commercialization of nanotechnology. Most nanotechnology labs use atomic force microscopes because they are easy to use and enable manufacturing of improved materials and reliable products, thereby augmenting the growth of the atomic force microscopy market.

“Market for AFMs to grow at highest CAGR during the forecast period”

An atomic force microscope is one of the most versatile and dominant equipment for studying samples beyond nanoscales. It is versatile because it can obtain three-dimensional topography, and it also meets the requirements of scientists and engineers by offering measurements for several types of surfaces. It can generate images at atomic resolution with angstrom scale resolution height information, with the least sample preparation. Also, it can be employed to determine numerous material properties that include friction, electrical force, capacitance, magnetic force, conductivity, viscoelasticity, surface potential, and resistance.

“Market for industrial grade AFMs to grow at higher CAGR during the forecast period”

The industrial grade atomic force microscopy market is expected to grow at a higher CAGR during the forecast period. This is because industrial grade AFM are more in demand owing to their high precision in detecting and visualizing even the smallest surface structures compared to research grade AFM. Industrial grade AFM can detect and visualize even the smallest surface structures that elevate the product analysis to the next level. One of the best examples of this is the utilization of AFM in quality control and imaging for silicon-integrated circuits in the semiconductor industry.

“Market for electronics and semiconductors segment to grow at highest CAGR during the forecast period”

The semiconductors and electronics segment is expected to grow at the highest CAGR during the forecast period. Atomic force microscopy can assist in the nanometer-scale characterization of semiconductor materials and devices. It also provides feedback for both electrical failure analysis and physical failure analysis, as well as tribological, mechanical, and interfacial analysis of devices, which is becoming an important metric for quality control.

“Market in APAC to grow at highest CAGR during the forecast period”

The atomic force microscopy market in APAC, particularly in China, Japan, and India, is expected to witness high growth in the next 5 years. Growing R&D funding for the development of microscopes, increasing nanotechnology research, and growing expertise and academic excellence, along with the availability of nanomaterials at a lower cost, are other factors supporting the market growth in APAC.

In the process of determining and verifying the market size for several segments and subsegments gathered through secondary research, extensive primary interviews have been conducted with key industry experts in the atomic force microscopy marketplace. The break-up of primary participants for the report has been shown below:

By Company Type: Tier 1 – 55%, Tier 2 – 25%, and Tier 3 – 20%

By Designation: Directors – 50%, Managers – 20%, Vice-Presidents – 25%, and Others – 5%

By Region: North America –40%, APAC– 35%, Europe – 15%, and RoW – 10%

The report profiles key players in the atomic force microscopy market with their respective market ranking analysis. Prominent players profiled in this report are Bruker (US), Park Systems (South Korea), Oxford Instruments (UK), Horiba (Japan), Hitachi High-Tech (Japan), Nanosurf (Switzerland), WITec (Germany), NT-MDT Spectrum Instruments (Russia), NanoMagnetics Instruments (UK), Nanonics Imaging (Israel), AFM Workshop (US), Attocube Systems (Germany), Anton Paar (Austria), Semilab (Budapest), Concept Scientific Instruments (France), Nano Scan Technologies (Russia), RHK Technologies (US), GETec Microscopy (Austria), Advanced Technologies Center (Russia), Nanoscience Instruments (US), Anfatec Instruments (Germany), Integrated Circuit Scanning Probe Instruments Corporation (Canada), Tokyo Instruments (Japan), and Molecular Vista (US).

Research Coverage:

This research report categorizes the atomic force microscopy market on the basis of offering, grade, application, and geography. The report describes the major drivers, restraints, challenges, and opportunities pertaining to the atomic force microscopy market and forecasts the same till 2026 (including analysis of COVID-19 impact on the market). Apart from these, the report also consists of leadership mapping and analysis of all the companies included in the AFM ecosystem.

Key Benefits of Buying the Report

The report would help leaders/new entrants in this market in the following ways:

1. This report segments the AFM market comprehensively and provides the closest market size projection for all subsegments across different regions.
2. The report helps stakeholders understand the pulse of the market and provides them with information on key drivers, restraints, challenges, and opportunities for market growth.
3. This report would help stakeholders understand their competitors better and gain more insights to improve their position in the business. The competitive landscape section includes competitor ecosystem, product launches, deals, and expansions.
4. The analysis of the top 25 companies, based on the strength of the market rank as well as the product footprint will help stakeholders visualize the market positioning of these key players.

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*Details on Business Overview, Products Offered, Recent Developments, and MnM View (Key strengths/Right to Win, Strategic Choices Made, and Weaknesses and Competitive Threats) might not be captured in case of unlisted companies.

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