

**Atomic Force Microscopy Market By Offering (Atomic Force Microscopes, Probes), By Grade (Industrial Grade AFM, Research Grade AFM), By Application (Material Science, Semiconductors and Electronics, Academics, Others): Global Opportunity Analysis and Industry Forecast, 2021-2031**

Market Report | 2022-10-01 | 211 pages | Allied Market Research

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**Report description:**

Atomic force microscopy (AFM) is a very-high-resolution type of scanning probe microscopy (SPM), with demonstrated resolution on the order of fractions of a nanometer, more than 1000 times better than the optical diffraction limit. It enables the imaging of almost any type of surface, including polymers, ceramics, composites, glass and biological samples. AFM is used to measure and localize many different forces, including adhesion strength, magnetic forces and mechanical properties.

Rising demand for high-resolution microscopy and growing demand for atomic force microscopy in the healthcare and pharmaceutical industry are the major factors that are driving the growth of the atomic force microscopy market. The life science application segment holds a significant market share in the forecast period.

The atomic force microscopy market is segmented on the basis of offering, grade, application, academics, chemistry type and region. By offering type, the market is divided into atomic force microscopes and probes. The grade type segment is bifurcated into industrial grade AFM and research grade AFM. By application, the market is analyzed across material science, semiconductors & electronics, academics and others. The academics segment is further divided into life sciences, chemistry and others. The chemistry segment is divided into surface chemistry, polymer chemistry and others.

Region wise, the measurement and testing market trends are analyzed across North America (the U.S., Canada, and Mexico), Europe (the UK, Germany, France, Italy, Spain, Russia, Netherlands, Belgium, Poland, and rest of Europe), Asia-Pacific (China, Japan, India, South Korea, Australia, Malaysia, Thailand, Philippines, Indonesia, and rest of Asia-Pacific), and LAMEA (Latin America, the Middle East, and Africa).

The key players operating in the market include atomic force microscopy market players, such as Bruker, Horiba, Park Systems, Oxford Instruments, Hitachi High-Tech, Nanosurf, WITec, NT-MDT Spectrum Instruments, NanoMagnetics Instruments, Nanonics

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Imaging, AFM Workshop, Attocube Systems, Anton Paar, Semilab, Concept Scientific Instruments, Nano Scan Technologies and Advanced Technologies Center.

#### Key Benefits For Stakeholders

- This report provides a quantitative analysis of the market segments, current trends, estimations, and dynamics of the atomic force microscopy market analysis from 2021 to 2031 to identify the prevailing atomic force microscopy market opportunities.
- The market research is offered along with information related to key drivers, restraints, and opportunities.
- Porter's five forces analysis highlights the potency of buyers and suppliers to enable stakeholders make profit-oriented business decisions and strengthen their supplier-buyer network.
- In-depth analysis of the atomic force microscopy market segmentation assists to determine the prevailing market opportunities.
- Major countries in each region are mapped according to their revenue contribution to the global market.
- Market player positioning facilitates benchmarking and provides a clear understanding of the present position of the market players.
- The report includes the analysis of the regional as well as global atomic force microscopy market trends, key players, market segments, application areas, and market growth strategies.

#### Key Market Segments

##### By Offering

- Atomic Force Microscopes

- Probes

##### By Grade

- Industrial Grade AFM

- Research Grade AFM

##### By Application

- Academics

- Stream

- Life Sciences

- Chemistry

- Others

- Others

- Material Science

- Semiconductors and Electronics

##### By Region

- North America

- U.S.

- Canada

- Mexico

- Europe

- UK

- Germany

- France

- Italy

- Spain

- Russia

- Netherlands

- Belgium

- Poland

- Rest Of Europe

- Asia-Pacific

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- China
- Japan
- India
- South Korea
- Australia
- Malaysia
- Thailand
- Philippines
- Indonesia
- Rest Of Asia-Pacific
- LAMEA
- Latin America
- Middle East
- Africa
- Key Market Players
- Park Systems
- Oxford Instruments
- Nanosurf AG
- NT-MDT Spectrum Instruments
- Nanomagnetix Instruments
- Nanonics Imaging Ltd
- AFM Workshop
- Attocube Systems AG
- Anton Paar
- Semilab Inc.
- Concept Scientific Instruments
- Advanced Technologies Center
- Bruker Corporation
- HORIBA, Ltd.
- Hitachi High-Technologies Corp (HHT)
- WITec (Wissenschaftliche Instrumente und Technologie GmbH)

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