

Atomic Force Microscopy Market Size, Share & Trends Analysis Report By Application (Material Science, Semiconductors, Life Science, Nanotechnology, Other Applications), By Region, And Segment Forecasts, 2026 - 2033

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Abstracts

The global atomic force microscopy market size was valued at USD 919.2 million in 2025 and is projected to grow from USD 993.0 million in 2026 to USD 1,780.9 million by 2033, at a CAGR of 8.7% from 2026 to 2033. North America dominated the market, accounting for a revenue share of 38.9% in 2025. The market growth is attributed to the growing demand for high-resolution surface characterization and nanoscale imaging across materials science, semiconductors, life sciences, nanotechnology, and pharmaceuticals.

The rapid growth of nanotechnology and advanced materials research is further increasing the need for precise characterization tools, while continued miniaturization in the semiconductor and electronics industries is driving demand for nanoscale inspection and defect analysis. In addition, expanding biomedical and pharmaceutical research including cell, protein, DNA, biomaterial, and drug-delivery studies is creating new applications for AFM.

Global Atomic Force Microscopy Market Report Segmentation

This report forecasts revenue growth at global, regional, and country levels and provides an analysis on industry trends in each of the segments from 2021 to 2033. For this study, Grand View Research, Inc. has segmented the atomic force microscopy

market report based on application and region:

Application Outlook (Revenue, USD Million, 2021 - 2033)

Material Science

Nanotechnology

Life Science

Semiconductors & Electronics

Other Applications

Regional Outlook (Revenue, USD Million, 2021 - 2033)

North America

U.S.

Canada

Mexico

Europe

UK

Germany

France

Italy

Spain

Sweden

Denmark

Norway

Asia Pacific

China

India

Japan

Australia

South Korea

New Zealand

Latin America

Brazil

Argentina

MEA

South Africa

Saudi Arabia

Kuwait

UAE

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