

# **Global Scanning Electron Microscopes Market Size study, by Application (Material Science, Nanotechnology, Life Science, Semiconductors, Other Applications) and Regional Forecasts 2021-2027**

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## **Abstracts**

Global Scanning Electron Microscopes Market is valued approximately USD 3.40 billion in 2020 and is anticipated to grow with a healthy growth rate of more than 8.34% over the forecast period 2021-2027. The scanning electron microscope (SEM) is a type of electron microscope that uses a centered electron beam to scan the surface and create sample pictures. When electrons collide with atoms in a sample, they produce a variety of signals that provide information about the sample's topography and composition. Key growth drivers are expected to include rising demand for nanotechnology-based research and increasing R&D innovation in operation sectors. Globally, rapid expansion in application sectors such as semiconductors, cars, medicines, and nanotechnology is one of the main reasons driving the SEM market's substantial rise. For instance, in November 2020, Nanoimaging Services (NIS), a supplier of Transmission Electron Microscopy (TEM) services, has collaborated with Thermo Fisher Scientific Inc. The collaboration allowed Thermo Fisher Scientific Inc. to have easier access to NIS' cryoelectron microscopy (cryoEM) technology for pharmaceutical and biotechnology applications. Furthermore, The scanning electron microscope is a large-scale instrument that demands a huge initial investment. There is a risk of magnetic, vibrational, and electrical interference, which might restrain market expansion.

The main regions of Asia Pacific, North America, Europe, Latin America, and the Rest of the World are included in the geographical analysis of the worldwide Scanning Electron Microscopes market. Singapore, Japan, China, India, and Australia are among the developing economies in APAC, and the EHS industry is projected to grow at a rapid pace. During the projection period, it is predicted to have the greatest CAGR.

China has seen tremendous industrial expansion and is now the world's manufacturing capital. Its government is tightening EHS regulations and requirements. The Social Science Research Council (SSRC) has launched the China Environment and Health Initiative, which will generate new research on China's health, environment, and development.

Major market player included in this report are:

Bruker Corp.

Danish Micro Engineering (DME)

Thermo Fisher Scientific

Hitachi High Technologies Corp.

JEOL Ltd.

Leica Microsystems

Nanoscience Instruments, Inc.

Nikon Corp.

Olympus Corp.

Carl Zeiss

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming eight years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within each of the regions and countries involved in the study. Furthermore, the report also caters the detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, the report shall also incorporate available opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By End-Users:

Material Science

Nanotechnology

Life Science

Semiconductors  
Other Applications

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Rest of the World

Furthermore, years considered for the study are as follows:

Historical year – 2018, 2019

Base year – 2020

Forecast period – 2021 to 2027

Target Audience of the Global Scanning Electron Microscopes Market in Market Study:

Key Consulting Companies & Advisors

Large, medium-sized, and small enterprises

Venture capitalists

Value-Added Resellers (VARs)

Third-party knowledge providers  
Investment bankers  
Investors

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