

# **Global Radiation Detection, Monitoring, & Safety Market Size study, by Product (Detection & Monitoring, Radiation Safety Products) by Composition (Gas-filled detectors, Scintillator, Solid-state detector), by Application (Healthcare, Homeland Security & Defence, Nuclear Power Plants, Industrial Application, Others) and Regional Forecasts 2022-2028**

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## **Abstracts**

Global Radiation Detection, Monitoring, & Safety Market is valued approximately USD 2.2 billion in 2021 and is anticipated to grow with a healthy growth rate of more than 6.9 % over the forecast period 2022-2028. Personal dosimeters, area process monitors, environment radiation monitors, surface contamination monitors, and radioactive material monitors are among the products used for detecting and monitoring radiations in the radiation detection, monitoring, and safety market. Personal dosimeters are further divided into passive and active dosimeters. Full-body protection accessories, facial protection, and hand safety products are also included in the radiation safety products category. Common sources of radiation exposure in the defence industry include nuclear submarines or nuclear ships; nuclear weapon handling, detonation, and maintenance; depleted uranium weapons and military equipment; and nuclear waste transport and storage. The likelihood and risks of radiation exposure have prompted the adoption of monitors and detectors in this application area. As a result, growing government defence spending has benefited makers of radiation detection and monitoring technologies. Terrorist organisations' inception and spread, an unpredictable geopolitical context, and the development of many radiological and nuclear technologies have all posed challenges to homeland security. Recognizing the potential for human

and economic loss as a result of these dangers, security, military, and defence institutions have expanded their spending in detecting and preventing radiological assaults. As new applications and capabilities in radiation detection, monitoring, and safety products for medical, homeland security & military, and nuclear power plants develop, R&D in this industry is projected to increase its prospects. Researchers at the Los Alamos National Laboratory and Argonne National Laboratory developed a new X-ray detector prototype that reduces radiation exposure and related health risks while improving resolution in security scanners and research applications. Also, According to an article published in Eureka Alert in April 2020. Kromek (UK) introduced the D3S PRD Personal Radiation Detector in 2019. The detector is made up of a palm-sized detector unit that stores the gamma and neutron detection modules, as well as a robust mobile phone that contains the unit readouts and analysis software. Nuclear energy alternatives, such as renewable energy, hamper market expansion throughout the forecast period of 2022-2028.

The key regions considered for the Global Radiation Detection, Monitoring, & Safety Market study includes Asia Pacific, North America, Europe, Latin America, and Rest of the World. North America held the largest market share followed by Europe. The high incidence/prevalence of various diseases (such as cancer, CVD, and neurological disorders), rising internal security and border concerns, greater focus on nuclear energy, and the presence of important players in the region are the primary drivers driving market expansion in the region.

Major market player included in this report are:

Thermo Fisher Scientific

Mirion Technologies

Fortive

AMETEK

Fuji Electric

Ludlum Measurements

Arktis Radiation Detectors

Polimaster

AmRay

Infab Corporation

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 Product:

Detection & Monitoring

Radiation Safety Products

By Composition:

Gas-filled detectors

Scintillator

Solid-state detector

By Application:

Healthcare

Homeland Security & Defence

Nuclear Power Plants

Industrial Application

Others

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, 2020

Base year – 2021

Forecast period – 2022 to 2028

Target Audience of the Global Radiation Detection, Monitoring, & Safety 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

## Contents

### CHAPTER 1. EXECUTIVE SUMMARY

- 1.1. Market Snapshot
- 1.2. Global & Segmental Market Estimates & Forecasts, 2020-2028 (USD Billion)
  - 1.2.1. Radiation Detection, Monitoring, & Safety Market, by Region, 2020-2028 (USD Billion)
  - 1.2.2. Radiation Detection, Monitoring, & Safety Market, by Product, 2020-2028 (USD Billion)
  - 1.2.3. Radiation Detection, Monitoring, & Safety Market, by Composition, 2020-2028 (USD Billion)
  - 1.2.4. Radiation Detection, Monitoring, & Safety Market, by Application, 2020-2028 (USD Billion)
- 1.3. Key Trends
- 1.4. Estimation Methodology
- 1.5. Research Assumption

### CHAPTER 2. GLOBAL RADIATION DETECTION, MONITORING, & SAFETY MARKET DEFINITION AND SCOPE

- 2.1. Objective of the Study
- 2.2. Market Definition & Scope
  - 2.2.1. Scope of the Study
  - 2.2.2. Industry Evolution
- 2.3. Years Considered for the Study
- 2.4. Currency Conversion Rates

### CHAPTER 3. GLOBAL RADIATION DETECTION, MONITORING, & SAFETY MARKET DYNAMICS

- 3.1. Radiation Detection, Monitoring, & Safety Market Impact Analysis (2020-2028)
  - 3.1.1. Market Drivers
    - 3.1.1.1. Growing security threats
    - 3.1.1.2. Rising prevalence of cancer worldwide
  - 3.1.2. Market Challenges
    - 3.1.2.1. Nuclear energy alternatives such as renewable energy
  - 3.1.3. Market Opportunities
    - 3.1.3.1. Technological improvements in Radiation Detection, Monitoring, & Safety

3.1.3.2. Growing usage of nuclear medicine & radiation therapy for diagnosis and treatment

## **CHAPTER 4. GLOBAL RADIATION DETECTION, MONITORING, & SAFETY MARKET INDUSTRY ANALYSIS**

### 4.1. Porter's 5 Force Model

4.1.1. Bargaining Power of Suppliers

4.1.2. Bargaining Power of Buyers

4.1.3. Threat of New Entrants

4.1.4. Threat of Substitutes

4.1.5. Competitive Rivalry

4.1.6. Futuristic Approach to Porter's 5 Force Model (2018-2028)

### 4.2. PEST Analysis

4.2.1. Political

4.2.2. Economical

4.2.3. Social

4.2.4. Technological

### 4.3. Investment Adoption Model

### 4.4. Analyst Recommendation & Conclusion

### 4.5. Top investment opportunity

### 4.6. Top winning strategies

## **CHAPTER 5. RISK ASSESSMENT: COVID-19 IMPACT**

5.1.1. Assessment of the overall impact of COVID-19 on the industry

5.1.2. Pre COVID-19 and post COVID-19 Market scenario

## **CHAPTER 6. GLOBAL RADIATION DETECTION, MONITORING, & SAFETY MARKET, BY PRODUCT**

### 6.1. Market Snapshot

6.2. Global Radiation Detection, Monitoring, & Safety Market by Product, Performance - Potential Analysis

6.3. Global Radiation Detection, Monitoring, & Safety Market Estimates & Forecasts by Product 2018-2028 (USD Billion)

6.4. Radiation Detection, Monitoring, & Safety Market, Sub Segment Analysis

6.4.1. Detection & Monitoring

6.4.2. Radiation Safety Products

## **CHAPTER 7. GLOBAL RADIATION DETECTION, MONITORING, & SAFETY MARKET, BY COMPOSITION**

7.1. Market Snapshot

7.2. Global Radiation Detection, Monitoring, & Safety Market by Composition, Performance - Potential Analysis

7.3. Global Radiation Detection, Monitoring, & Safety Market Estimates & Forecasts by Composition 2018-2028 (USD Billion)

7.4. Radiation Detection, Monitoring, & Safety Market, Sub Segment Analysis

7.4.1. Gas-filled detectors

7.4.2. Scintillator

7.4.3. Solid-state detector

## **CHAPTER 8. GLOBAL RADIATION DETECTION, MONITORING, & SAFETY MARKET, BY APPLICATION**

8.1. Market Snapshot

8.2. Global Radiation Detection, Monitoring, & Safety Market by Application, Performance - Potential Analysis

8.3. Global Radiation Detection, Monitoring, & Safety Market Estimates & Forecasts by Application 2018-2028 (USD Billion)

8.4. Radiation Detection, Monitoring, & Safety Market, Sub Segment Analysis

8.4.1. Healthcare

8.4.2. Homeland Security & Defence

8.4.3. Nuclear Power Plants

8.4.4. Industrial Application

8.4.5. Others

## **CHAPTER 9. GLOBAL RADIATION DETECTION, MONITORING, & SAFETY MARKET, REGIONAL ANALYSIS**

9.1. Radiation Detection, Monitoring, & Safety Market, Regional Market Snapshot

9.2. North America Radiation Detection, Monitoring, & Safety Market

9.2.1. U.S. Radiation Detection, Monitoring, & Safety Market

9.2.1.1. Product breakdown estimates & forecasts, 2018-2028

9.2.1.2. Composition breakdown estimates & forecasts, 2018-2028

9.2.1.3. Application breakdown estimates & forecasts, 2018-2028

9.2.2. Canada Radiation Detection, Monitoring, & Safety Market

- 9.3. Europe Radiation Detection, Monitoring, & Safety Market Snapshot
  - 9.3.1. U.K. Radiation Detection, Monitoring, & Safety Market
  - 9.3.2. Germany Radiation Detection, Monitoring, & Safety Market
  - 9.3.3. France Radiation Detection, Monitoring, & Safety Market
  - 9.3.4. Spain Radiation Detection, Monitoring, & Safety Market
  - 9.3.5. Italy Radiation Detection, Monitoring, & Safety Market
  - 9.3.6. Rest of Europe Radiation Detection, Monitoring, & Safety Market
- 9.4. Asia-Pacific Radiation Detection, Monitoring, & Safety Market Snapshot
  - 9.4.1. China Radiation Detection, Monitoring, & Safety Market
  - 9.4.2. India Radiation Detection, Monitoring, & Safety Market
  - 9.4.3. Japan Radiation Detection, Monitoring, & Safety Market
  - 9.4.4. Australia Radiation Detection, Monitoring, & Safety Market
  - 9.4.5. South Korea Radiation Detection, Monitoring, & Safety Market
  - 9.4.6. Rest of Asia Pacific Radiation Detection, Monitoring, & Safety Market
- 9.5. Latin America Radiation Detection, Monitoring, & Safety Market Snapshot
  - 9.5.1. Brazil Radiation Detection, Monitoring, & Safety Market
  - 9.5.2. Mexico Radiation Detection, Monitoring, & Safety Market
- 9.6. Rest of The World Radiation Detection, Monitoring, & Safety Market

## **CHAPTER 10. COMPETITIVE INTELLIGENCE**

- 10.1. Top Market Strategies
- 10.2. Company Profiles
  - 10.2.1. Thermo Fisher Scientific
    - 10.2.1.1. Key Information
    - 10.2.1.2. Overview
    - 10.2.1.3. Financial (Subject to Data Availability)
    - 10.2.1.4. Product Summary
    - 10.2.1.5. Recent Developments
  - 10.2.2. Mirion Technologies
  - 10.2.3. Fortive
  - 10.2.4. AMETEK
  - 10.2.5. Fuji Electric
  - 10.2.6. Ludlum Measurements
  - 10.2.7. Arktis Radiation Detectors
  - 10.2.8. Polimaster
  - 10.2.9. AmRay
  - 10.2.10. Infab Corporation



## **CHAPTER 11. RESEARCH PROCESS**

### 11.1. Research Process

#### 11.1.1. Data Mining

#### 11.1.2. Analysis

#### 11.1.3. Market Estimation

#### 11.1.4. Validation

#### 11.1.5. Publishing

### 11.2. Research Attributes

### 11.3. Research Assumption

## List Of Tables

### LIST OF TABLES

TABLE 1. Global Radiation Detection, Monitoring, & Safety Market, report scope

TABLE 2. Global Radiation Detection, Monitoring, & Safety Market estimates & forecasts by Region 2018-2028 (USD Billion)

TABLE 3. Global Radiation Detection, Monitoring, & Safety Market estimates & forecasts by Product 2018-2028 (USD Billion)

TABLE 4. Global Radiation Detection, Monitoring, & Safety Market estimates & forecasts by Composition 2018-2028 (USD Billion)

TABLE 5. Global Radiation Detection, Monitoring, & Safety Market estimates & forecasts by Application 2018-2028 (USD Billion)

TABLE 6. Global Radiation Detection, Monitoring, & Safety Market by segment, estimates & forecasts, 2018-2028 (USD Billion)

TABLE 7. Global Radiation Detection, Monitoring, & Safety Market by region, estimates & forecasts, 2018-2028 (USD Billion)

TABLE 8. Global Radiation Detection, Monitoring, & Safety Market by segment, estimates & forecasts, 2018-2028 (USD Billion)

TABLE 9. Global Radiation Detection, Monitoring, & Safety Market by region, estimates & forecasts, 2018-2028 (USD Billion)

TABLE 10. Global Radiation Detection, Monitoring, & Safety Market by segment, estimates & forecasts, 2018-2028 (USD Billion)

TABLE 11. Global Radiation Detection, Monitoring, & Safety Market by region, estimates & forecasts, 2018-2028 (USD Billion)

TABLE 12. Global Radiation Detection, Monitoring, & Safety Market by segment, estimates & forecasts, 2018-2028 (USD Billion)

TABLE 13. Global Radiation Detection, Monitoring, & Safety Market by region, estimates & forecasts, 2018-2028 (USD Billion)

TABLE 14. Global Radiation Detection, Monitoring, & Safety Market by segment, estimates & forecasts, 2018-2028 (USD Billion)

TABLE 15. Global Radiation Detection, Monitoring, & Safety Market by region, estimates & forecasts, 2018-2028 (USD Billion)

TABLE 16. U.S. Radiation Detection, Monitoring, & Safety Market estimates & forecasts, 2018-2028 (USD Billion)

TABLE 17. U.S. Radiation Detection, Monitoring, & Safety Market estimates & forecasts by segment 2018-2028 (USD Billion)

TABLE 18. U.S. Radiation Detection, Monitoring, & Safety Market estimates & forecasts by segment 2018-2028 (USD Billion)

TABLE 19. Canada Radiation Detection, Monitoring, & Safety Market estimates & forecasts, 2018-2028 (USD Billion)

TABLE 20. Canada Radiation Detection, Monitoring, & Safety Market estimates & forecasts by segment 2018-2028 (USD Billion)

TABLE 21. Canada Radiation Detection, Monitoring, & Safety Market estimates & forecasts by segment 2018-2028 (USD Billion)

TABLE 22. UK Radiation Detection, Monitoring, & Safety Market estimates & forecasts, 2018-2028 (USD Billion)

TABLE 23. UK Radiation Detection, Monitoring, & Safety Market estimates & forecasts by segment 2018-2028 (USD Billion)

TABLE 24. UK Radiation Detection, Monitoring, & Safety Market estimates & forecasts by segment 2018-2028 (USD Billion)

TABLE 25. Germany Radiation Detection, Monitoring, & Safety Market estimates & forecasts, 2018-2028 (USD Billion)

TABLE 26. Germany Radiation Detection, Monitoring, & Safety Market estimates & forecasts by segment 2018-2028 (USD Billion)

TABLE 27. Germany Radiation Detection, Monitoring, & Safety Market estimates & forecasts by segment 2018-2028 (USD Billion)

TABLE 28. RoE Radiation Detection, Monitoring, & Safety Market estimates & forecasts, 2018-2028 (USD Billion)

TABLE 29. RoE Radiation Detection, Monitoring, & Safety Market estimates & forecasts by segment 2018-2028 (USD Billion)

TABLE 30. RoE Radiation Detection, Monitoring, & Safety Market estimates & forecasts by segment 2018-2028 (USD Billion)

TABLE 31. China Radiation Detection, Monitoring, & Safety Market estimates & forecasts, 2018-2028 (USD Billion)

TABLE 32. China Radiation Detection, Monitoring, & Safety Market estimates & forecasts by segment 2018-2028 (USD Billion)

TABLE 33. China Radiation Detection, Monitoring, & Safety Market estimates & forecasts by segment 2018-2028 (USD Billion)

TABLE 34. India Radiation Detection, Monitoring, & Safety Market estimates & forecasts, 2018-2028 (USD Billion)

TABLE 35. India Radiation Detection, Monitoring, & Safety Market estimates & forecasts by segment 2018-2028 (USD Billion)

TABLE 36. India Radiation Detection, Monitoring, & Safety Market estimates & forecasts by segment 2018-2028 (USD Billion)

TABLE 37. Japan Radiation Detection, Monitoring, & Safety Market estimates & forecasts, 2018-2028 (USD Billion)

TABLE 38. Japan Radiation Detection, Monitoring, & Safety Market estimates &

forecasts by segment 2018-2028 (USD Billion)

TABLE 39. Japan Radiation Detection, Monitoring, & Safety Market estimates & forecasts by segment 2018-2028 (USD Billion)

TABLE 40. RoAPAC Radiation Detection, Monitoring, & Safety Market estimates & forecasts, 2018-2028 (USD Billion)

TABLE 41. RoAPAC Radiation Detection, Monitoring, & Safety Market estimates & forecasts by segment 2018-2028 (USD Billion)

TABLE 42. RoAPAC Radiation Detection, Monitoring, & Safety Market estimates & forecasts by segment 2018-2028 (USD Billion)

TABLE 43. Brazil Radiation Detection, Monitoring, & Safety Market estimates & forecasts, 2018-2028 (USD Billion)

TABLE 44. Brazil Radiation Detection, Monitoring, & Safety Market estimates & forecasts by segment 2018-2028 (USD Billion)

TABLE 45. Brazil Radiation Detection, Monitoring, & Safety Market estimates & forecasts by segment 2018-2028 (USD Billion)

TABLE 46. Mexico Radiation Detection, Monitoring, & Safety Market estimates & forecasts, 2018-2028 (USD Billion)

TABLE 47. Mexico Radiation Detection, Monitoring, & Safety Market estimates & forecasts by segment 2018-2028 (USD Billion)

TABLE 48. Mexico Radiation Detection, Monitoring, & Safety Market estimates & forecasts by segment 2018-2028 (USD Billion)

TABLE 49. RoLA Radiation Detection, Monitoring, & Safety Market estimates & forecasts, 2018-2028 (USD Billion)

TABLE 50. RoLA Radiation Detection, Monitoring, & Safety Market estimates & forecasts by segment 2018-2028 (USD Billion)

TABLE 51. RoLA Radiation Detection, Monitoring, & Safety Market estimates & forecasts by segment 2018-2028 (USD Billion)

TABLE 52. Row Radiation Detection, Monitoring, & Safety Market estimates & forecasts, 2018-2028 (USD Billion)

TABLE 53. Row Radiation Detection, Monitoring, & Safety Market estimates & forecasts by segment 2018-2028 (USD Billion)

TABLE 54. Row Radiation Detection, Monitoring, & Safety Market estimates & forecasts by segment 2018-2028 (USD Billion)

TABLE 55. List of secondary sources, used in the study of global Radiation Detection, Monitoring, & Safety Market

TABLE 56. List of primary sources, used in the study of global Radiation Detection, Monitoring, & Safety Market

TABLE 57. Years considered for the study

TABLE 58. Exchange rates considered



## List Of Figures

### LIST OF FIGURES

FIG 1. Global Radiation Detection, Monitoring, & Safety Market, research methodology

FIG 2. Global Radiation Detection, Monitoring, & Safety Market, Market estimation techniques

FIG 3. Global Market size estimates & forecast methods

FIG 4. Global Radiation Detection, Monitoring, & Safety Market, key trends 2021

FIG 5. Global Radiation Detection, Monitoring, & Safety Market, growth prospects 2022-2028

FIG 6. Global Radiation Detection, Monitoring, & Safety Market, porters 5 force model

FIG 7. Global Radiation Detection, Monitoring, & Safety Market, pest analysis

FIG 8. Global Radiation Detection, Monitoring, & Safety Market, value chain analysis

FIG 9. Global Radiation Detection, Monitoring, & Safety Market by segment, 2018 & 2028 (USD Billion)

FIG 10. Global Radiation Detection, Monitoring, & Safety Market by segment, 2018 & 2028 (USD Billion)

FIG 11. Global Radiation Detection, Monitoring, & Safety Market by segment, 2018 & 2028 (USD Billion)

FIG 12. Global Radiation Detection, Monitoring, & Safety Market by segment, 2018 & 2028 (USD Billion)

FIG 13. Global Radiation Detection, Monitoring, & Safety Market by segment, 2018 & 2028 (USD Billion)

FIG 14. Global Radiation Detection, Monitoring, & Safety Market, regional snapshot 2018 & 2028

FIG 15. North America Radiation Detection, Monitoring, & Safety Market 2018 & 2028 (USD Billion)

FIG 16. Europe Radiation Detection, Monitoring, & Safety Market 2018 & 2028 (USD Billion)

FIG 17. Asia pacific Radiation Detection, Monitoring, & Safety Market 2018 & 2028 (USD Billion)

FIG 18. Latin America Radiation Detection, Monitoring, & Safety Market 2018 & 2028 (USD Billion)

FIG 19. Global Radiation Detection, Monitoring, & Safety Market, company Market share analysis (2021)

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