

Bioremediation Market Size, Share & Trends Analysis Report By Type (In Situ, Ex Situ), By Technology (Biostimulation, Phytoremediation), By Service (Soil Remediation, Oilfield Remediation), By Region, And Segment Forecasts, 2025 - 2030

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Abstracts

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Bioremediation Market Growth & Trends

The global bioremediation market size is expected to reach USD 29.37 billion by 2030, registering growth at a CAGR of 10.52% from 2025 to 2030 according to a new report by Grand View Research, Inc. Rapid growth in industrialization & increasing environmental deterioration, advancements in synthetic technologies, and increasing government support for bioremediation research and innovations are driving the market growth. Genome editing tools, such as CRISPR-Cas and TALEN, are facilitating metabolic engineering applications for the production of optimized enzymes and metabolic pathways that aid in the biodegradation process. Similarly, quorum sensing-based microbial interactions can be effectively used for designing gene circuits and microbial biosensors for the detection and degradation of persistent recalcitrant pollutants.

These factors can accelerate the adoption of bioremediation techniques and fuel market growth. Furthermore, synthetic biology also enables the designing of biological molecules with the desired chemical composition that can be used for the degradation of target contaminant molecules. Several enzyme modification approaches have been developed in this domain, such as enzyme immobilization, using magnetic nanoparticles, production of designer enzymes, and generation of single enzyme nanoparticles,

among others. Therefore, the use of synthetic technology for utilizing the biodegradative capabilities of enzymes is expected to drive the industry. In addition, government authorities are raising awareness about the implementation of bioremediation strategies to drive the adoption of the technique.

For instance, in June 2020, the Indian Government issued an advisory for the treatment and disposal of solid waste through the bioremediation process for reclamation of landfill sites. The advisory was directed toward Urban Local Bodies and signified the increasing attention drawn by bioremediation in the country. The COVID-19 pandemic has led to increased awareness about disinfection, sterilization, and remediation of contaminated areas in public spaces and homes. Furthermore, as the SARS-CoV-2 virus continues to undergo mutations, causing recurrent waves of infection cases around the globe, demand for bioremediation services for reducing the risk of contamination is expected to rise. Similarly, large quantities of Personal Protective Equipment (PPE) and face masks used have led to new challenges in the disposal and treatment of medical waste, which present new growth opportunities for bioremediation.

Bioremediation Market Report Highlights

In situ bioremediation segment held the largest market share of 56.63% in 2024. The technique refers to treatment of contaminations at the original site without the need to excavate or pump out the contaminated materials.

Phytoremediation segment held the largest market share of 32.05% in 2024. Demand for technology is fueled by its applications for removal of heavy metals, radionuclides, organic contaminants, and pesticides with help of plants.

Soil remediation segment held the largest market share of 39.67% in 2024. The service involves removal of soil contaminants originating from sources such as dumping of chemicals, improper waste disposal, pipe leaks & spills, and others.

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