

# Bio-industry, Green Engineering and Economy

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Green chemistry and biotechnology are collection of physical, chemical and biological procedures in designing and applying raw materials in chemical, agricultural and industrial products to reduce consumption of natural sources and also to remove or prevent the accumulation of toxic and dangerous chemicals. The purpose of these technologies is to create alternative routes instead of the traditional industrial methods to minimize side effects on the environment.

Economic growth and sustainable industry require safe and renewable resources. Biotechnology as an application of living systems and their molecular components in industry along with green chemistry methods could be promising fields in reducing the environmental pollutions, and consumption of raw materials leading to sustainable development without damaging the biological environment. In addition, new horizons provided by biomimetic approach can be useful to overcome the natural and artificial pollutions.

**Keywords: Green chemistry, Green Economy, Green Engineering, Biotechnology, Biomimetics.**

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