

# International Conference on Nurturing Sustainability through Innovations in Science and Technology for Global Welfare



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## Nanotechnology for a Sustainable World: Innovative Approaches to Global Challenges

The 17 sustainable development goals (SDGs) created by the UN call for urgent action by all member states to achieve ambitious goals like eradicating poverty and hunger, improving global health, reducing inequalities and spurring economic growth while battling climate change and conserving our oceans and forests by 2030. With merely 6 years left, the SDGs are far off track proving incremental and fragmented change insufficient. Linking multi-disciplinary scientific transformations to every goal is critical in translating the SDGs into action. Having already radicalized various industrial sectors from medicine to energy, the constantly evolving field of nanotechnology promises a diverse application in advancing sustainable development. This paper gives an overview of the advancements in nanotechnology that can provide unique solutions to pressing global issues. Researchers, policymakers and stakeholders can use these powerful nano-tools to create smarter cities, produce clean energy for all, conserve biodiversity, replace non-renewable resources and much more while overcoming roadblocks like high cost of production, accessibility and fair distribution to integrate nanotechnology in everyday life.

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