



# Thomas Adewumi University

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### Editorial

## Sustainable Development Through Innovation: Discovering New Opportunities in Science, Technology, and Education.

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### Introduction

The Innovation is essential for sustainable development, acting as a driving force for advancement in various fields such as science, technology, and education. As the world faces significant challenges, ranging from environmental issues to digital changes and socio-economic disparities, hence, the importance of innovative solutions is increasingly becoming pivotal. This edition of the Thomas Adewumi University Journal of Innovation, Science, and Technology (Volume 1, Issue 2) showcases multidisciplinary research initiatives focused on resolving these challenges and promoting sustainable growth.

### Science and Technology: Pioneering Sustainable Solutions

The Science and technology are constantly reshaping what's possible, providing solutions that enhance environmental sustainability, economic stability, and social well-being. This issue features articles that explore groundbreaking research, ranging from the creation of sophisticated algorithms for tackling complex mathematical challenges to the innovative application of artificial intelligence (AI) in improving information retrieval and security systems. In particular, the research on AI-driven search tools, blockchain technology for financial security, and hybrid cybersecurity frameworks emphasizes the transformative impact of technology in building resilient communities.

Moreover, the emphasis on sustainable farming practices, such as using organic manure in groundnut cultivation and conducting model analyses for rice price forecasting, aligns with global initiatives aimed at ensuring food security. These efforts demonstrate how scientific research and technological progress can work together to foster sustainable agricultural development, thereby, improving livelihoods and promoting environmental sustainability.

### Driving Innovation and Societal Progress through Education

Education is a crucial foundation for sustainable development, promoting innovation and providing individuals with the skills needed to navigate complex societal challenges. Articles in this edition highlight the changing role of education in developing critical thinking, technological skills, and inclusivity. Topics discussed include improving job performance among business education lecturers and examining how environmental factors shape students' initial perceptions of higher education institutions.

In addition, studies on the use of open-access databases and the willingness of cataloguers to embrace AI technologies underscore the importance of ongoing adaptation within educational systems. As education becomes more digital, it is essential to understand how to effectively use technological tools to foster academic growth.

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### Societal Dynamics: Solving Contemporary Challenges

Sustainable development cannot be fully realized without considering the societal dynamics that shape growth and progress. This topic invites engaging discussions on issues like gender pay gaps, workplace fairness, and the readiness of rural women to embrace eco-friendly energy options. These articles not only shed light on significant societal challenges but also suggest ways to foster more inclusive and equitable communities.

Moreover, the investigation of bioremediation methods for environmental protection, the influence of leadership on healthcare systems, and the evolution of media writing illustrate a comprehensive approach to understanding societal change. These studies remind us that achieving sustainable development necessitates the integration of varied perspectives and solutions that tackle economic, environmental, and social aspects.

### Conclusion

This issue showcases a wide range of research that highlights the journal's dedication to promoting knowledge essential for sustainable development. This edition aims to spark academic discussions and practical solutions that contribute to a more sustainable future by examining creative strategies in science, technology, and education.

In a time characterized by swift changes and intricate global issues, it is vital to encourage interdisciplinary research and innovation. We hope that the insights shared in this edition will motivate further exploration, collaboration, and efforts towards sustainable development.



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