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Nadir Yildirim

Bursa Technical University, Turkey

How to transfer bio-composite technology from research to industry using innovation engineering?

The academicians and researchers work hard to perform unique projects at the universities. They complete the projects successfully and publish papers even books. However, just publishing books or articles is not enough to compete against the future. The commercialization of an idea developed at the universities is no longer a fleeting trend but a strategy being adopted by organizations to maintain their competitive positions. The increased awareness in environmental issues makes this reality more critical in bio-products industry with high demand for the green and sustainable replacement for petroleum-based products. The innovation engineering is a culture that guides researchers to take right actions on the right time to develop meaningfully unique products and convert them to benefit. In this study successfully developed bio-composite technology were brought to industry using innovation engineering concept.

Biography

Nadir Yildirim earned his Ph.D. in Forest Resources from the University of Maine, and he is also a graduate of the University of Maine Innovation Engineering Program. He was also a research scholar at Purdue University. He has been working with advanced bio-nanocomposites for over 10 years and also acted as the Program Manager for various development projects in nanocomposites and advanced materials, including studies of fire retardant nanocomposites, water repellent nanocellulose composites, aerogels, bio-based panels and eco-friendly thermal insulation composite foam boards for green buildings. As Co-founder and CEO of Revolution Research Inc., Dr. Yildirim has received grants from the National Science Foundation (NSF), United States Department of Agriculture (USDA), Environmental Protection Agency (EPA) and the Maine Technology Institute (MTI) for development of innovative, eco-friendly, and futurist materials. He has been working at Bursa Technical University since 2017 as the Associate Director of Bursa Technology Transfer Office and also as an Assistant Research Professor of Sustainable Forest Bioproducts.

nadir.yildirim@btu.edu.tr

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