

Dheeban Chakravarthi Kannan

Fellow

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Dheeban Chakravarthi is engaged in algal biofuel research. His focus areas are photobioreactor design, algal harvesting and lipid recovery. He obtained his PhD in Chemical Engineering from the Pennsylvania State University in 2009. Dheeban Chakravarthi has been in-charge of setting up an outdoor algal facility at the TERI Gram, Gurgaon campus that houses prototype photobioreactors, raceway pond and tubular photobioreactor. He has previously been a Senior Research Engineer at the algal biofuel company, OriginOil in Los Angeles, USA. He was in-charge of the lab research in the company and had co-ordinated pilot-scale operations. He had developed a patented solid catalyst method for biodiesel production during his PhD research. He has publications on engineering aspects of algal biofuels, lipid recovery, algal nutrient uptake and phase equilibria and a patent application on outdoor algal photobioreactor.

Current research involvements:

Outdoor algal growth system for improved productivity

Viable methodology to harvest microalgae in outdoor growth systems

Recovery of lipids from wet algae without the need for energy-intensive drying