



**Dr. E. Nakkeeran, MTech, PhD**

**Placement Officer & Associate Professor of Biotechnology**

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<b>PhD</b>	University of Mysore CSIR-Central Food Technological Research Institute (CSIR-CFTRI), Mysore, India	Biotechnology February 2011
<b>MTech</b>	Vellore Institute of Technology, Vellore, India	Biotechnology June 2005
<b>BTech</b>	Bharathiar University, Coimbatore, India	Chemical Engineering April 2003
Teaching & Research Experience		10 Years
Industrial Experience		1 Year

### Research Interest

- Bioprocess:** Chitinase production from *Bacillus licheniformis* using crab shell in a submerged fermentation. Submerged and solid-state production of enzymes from microbes.
- Downstream Process:** Purification of microbial enzymes using Membrane Process and Aqueous Two Phase Extraction; Extraction and purification of natural colorant, betacyanin from *Opuntia ficus-indica* employing Aqueous Two Phase Extraction, Membrane Process such as Microfiltration, Ultrafiltration, Nanofiltration and Forward Osmosis.
- Food Process:** Microencapsulation of *Opuntia ficus-indica* betacyanin using various biopolymers and proteins to improve the storage stability; Formulation of novel health drink rich in antioxidants from cactus pear using biotechnological approaches; Extraction and clarification of fruit juices using enzymes.
- Nanotechnology:** Synthesis and Characterization of Silver and Zinc Oxide nanoparticles and its application in waste water treatment.