


**Dr. Neelamegam D**

**Professor and Head**

**CENTRE FOR BIOMEDICAL SPECTROSCOPY**

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**Dr. Neelamegam D** is a leading expert in the development of affordable, non-destructive sensing systems utilizing UV/Vis/NIR spectroscopic techniques, hyperspectral imaging, and bioelectrical impedance spectroscopy. His research has led to 25 peer-reviewed publications and five granted and published patents, highlighting his significant scientific contributions in the field. He is currently involved in a major ongoing research project funded by the Department of Biotechnology, in collaboration with Jadavpur University, Kolkata, and the Institute of Bioresources and Sustainable Development (IBSD), Manipur. Additionally, Dr. Neelamegam D is spearheading a collaborative research initiative with Tamil Nadu Agricultural University, Coimbatore, and the Indian Institute of Spices Research, Kozhikode, further expanding the impact of his interdisciplinary work.

### Looking for PhD students to work in the following areas

1. **Development of Affordable Non-Destructive Sensing Systems:** Utilizing UV/Vis/NIR Spectroscopy, Hyperspectral Imaging, and Bioelectrical Impedance Spectroscopy for real-world applications.
2. **Advanced Spectroscopic Techniques:** Application of novel spectroscopic methods for material analysis, biological systems, and agricultural monitoring.
3. **Precision Agriculture and Food Quality Assessment:** Integrating sensor technologies with AI for quality evaluation, crop monitoring, and sustainable agricultural practices.
4. **Collaborative Research Projects:** Involvement in ongoing national collaborations with Jadavpur University, IBSD-Manipur, Tamil Nadu Agricultural University, and the Indian Institute of Spices Research.

### Facilities available

1. UV/Vis/NIR Spectrophotometers
2. Hyperspectral Imaging System
3. Bioelectrical Impedance Analyzer
4. Portable and Custom-Designed Spectroscopic Setups
5. Sensor Development and Calibration Tools
6. High-Performance Computing (HPC) Facilities
7. Collaborative Access to Shared Instrumentation

### Benefits and opportunities

1. Monthly fellowship as per Institute Norms
2. Hands-on Experience with Advanced Technologies
3. Interdisciplinary Research Exposure
4. Publication & Patent Support
5. Conference Participation

### Contact details

**Dr. Neelamegam D**

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