



**VIT<sup>®</sup>**  
Vellore Institute of Technology  
(Deemed to be University under section 3 of UGC Act, 1956)



# VIT School of Agricultural Innovations and Advanced Learning (VAIAL)

**Dates**

09.06.25 to 18.06.25

## SUMMER INTERNSHIP PROGRAMME ON

# "PANOMICS TO DECIPHER MOLECULAR PHYSIOLOGY OF VEGETABLE CROPS"

### HIGHLIGHTS

#### CASE STUDIES

1. Tomato – Fungal pathogen interactions
2. Brinjal – Soil nutrients and plant interactions
3. Chilies – Genetic diversity of traditional and modern varieties

#### MODULES

1. Genomics – Exploring the genome data
2. Transcriptome data analysis and interpretation
3. Targeted Gene expression analysis
4. Proteomics – Wet and dry lab analysis, biomarker proteins
5. Metabolomics – Sample preparation, analysis and data interpretation
6. Introduction to selected bioinformatic tools and databases
7. Field visit

### PARTICIPANTS

- PG students or Ph.D scholars of Agriculture, Biological Sciences, Biotechnology or related degree programmes. Maximum 30, based on first registered first served basis.
- The participants should submit a two-page report about their learning from the internship at the end of the programme to receive the certificate of participation.

### Fees

**Internal Participants - Rs. 1500/-**

**External Participants - Rs. 2000/-**  
(INCLUDING GST.)

**Last Date to Apply**

**01.06.25**



<https://events.vit.ac.in>

### Convenor

**Dr. R. Rajendran**  
Dean, VAIAL

### Internship Coordinators

**Dr. S. Babu / Dr. S. Ramesh Kumar /**  
**Dr. T. Parthasarathi / Dr. R. Muthukrishnan**

### Head of the Departments

**Dr. S. Ramesh Kumar**  
**Dr. M. Annie Jenifer**  
**Dr. B. Priyadharshini**

### Contact Information

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