

## R SAMIKSHA SHRI

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*A biotechnology research student with a passion for exploring the intersection of biology and technology. My expertise lies in molecular biology and food science focusing on enhancing food safety and sustainability. I aim to contribute to innovative research that addresses global challenges and advances scientific knowledge.*

### CORE COMPETENCIES

- Biotechnology
- Microbiology
- Instrumentation
- Workflow Streamlining
- Technical Communications
- Data Analysis
- Statistical Analysis
- Quality Assurance/ Testing
- Molecular Biology

### TECHNICAL EXPERIENCE

1. Laboratory Techniques: Proficiency in microbial culture, staining techniques (Gram staining, acid-fast staining), and microscopy.
2. Molecular Methods: Experience with PCR, DNA extraction, and sequencing specific to microbial genomes.
3. Microbial Identification: Skills in identifying bacteria, fungi, and viruses using biochemical tests, Culturing, Plating, Microbial analysis of food and molecular methods.
4. Antimicrobial Testing: Knowledge of antibiotic susceptibility testing (e.g., disk diffusion, MIC determination).
5. Environmental Microbiology: Experience with sampling and analyzing environmental samples for microbial content.
6. Data Analysis: Competence in analyzing data.
7. Technical Writing: Experience in writing research papers, lab reports, and technical documentation related to microbiology.

### EDUCATION

**SRM University**

**2021 - 2025**

**CGPA – 9.10**

Bachelor of Technology – Bio Technology

*Expected Graduation – 2025*

### INTERSHIP & CERTIFICATIONS

- **National Institute of Technology** – Recent Innovations on Post Harvest Handling & Value Addition on Agricultural Produces by FEP Department along with DST-SERB Sponsored KARYASHALA Internship 6 Days
- **Weevil Biotech Pvt Ltd.** – Internship Program on Polymerase Chain Reaction (PCR), Gel Electrophoresis, DNA Sequencing, Western Blotting, Cloning & CRISPR-Cas9 Internship 15 Days
- **Indian Institute of Science (IISc), BNG** – Food Microbiology Workshop with PRAVEGA 2024 Internship 3 Days
- **Spryntas Software Solutions** – Molecular Simulation & Drug Training
- **National Institute of Technology, Rourkela** – Synthesis of Hydrolysates from Raw & Depigmented Spirulina Platensis for Food Applications Internship 45 Days
- **CSIR Central Food Technological Research Institute (CFTRI), MYS** – “Influence Of Starter Culture in Idli Batter Fermentation”, Increasing Shelf life of Idli Batter using microorganisms at room temperature. Dissertation 5 Months
- **CSIR – National Institute for Interdisciplinary Science & Technology, Trivandrum** “ Increase in the reuse ability of used cooking oil using spent spice waste as Bioadsorbent Technology”. Dissertation 4 Months