

# ABDUL AZEEZ

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## CAREER OBJECTIVE

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Microbiology graduate with hands-on skills in microbial techniques, aseptic handling, ensuring safety and quality standards. Eager to contribute to QC, Production, or R&D roles in the pharmaceutical or food industry.

## EDUCATION

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### M. Sc Microbiology.

Oct 2023 – Jun 2025

Ponnaiyah Ramajeyam Institute of Science and Technology, Thanjavur, Tamil Nadu

### B. Sc Microbiology

Aug 2020 – Jul 2023

Ponnaiyah Ramajeyam Institute of Science and Technology, Thanjavur, Tamil Nadu

## SKILLS

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**Microbial Techniques:** Aseptic Techniques, Microbial Culturing, ABST, Staining Techniques, Microscopy.

**Molecular Techniques:** PCR (Polymerase Chain Reaction), Electrophoresis.

**Clinical Diagnostics:** Patient Data Entry, Blood Collection and Blood Typing, Urine Analysis, ECG and X-ray Procedures.

**Bioinformatics:** Molecular Docking.

## PROFESSIONAL EXPERIENCE

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### Trainee: MICRO DIGITAL X-RAYS AND FULLY AUTOMATED LABORATORY

Thanjavur, Tamil Nadu.

June 2024 – July 2024

- Managed patient records and assisted with administrative tasks.
- Collected blood samples and performed blood typing, ensuring patient safety.
- Analyzed urine samples for diabetic patients and supported diagnostics.
- Assisted with basic ECG and X-ray imaging, gaining experience in diagnostics.
- Prepared accurate diagnostic reports and ensured timely distribution to medical staff and patients.

### Intern Trainee: Microbiology Laboratory Techniques

Sacred Heart College (Autonomous) Vellore, India

Sep 2023 – Oct 2023

- Performed microbial culture, isolation, and identification using standard laboratory techniques.
- Conducted antibiotic susceptibility testing and biochemical assays for pathogen characterization.
- Strengthened skills in aseptic techniques, microbial handling, and laboratory quality testing.
- Operated and maintained various microbiological instruments including microscope, centrifuge, laminar airflow chamber and autoclave

### Intern: Environmental Quality Monitoring

Tamil University, Thanjavur

April 2022

- Performed BOD and COD analysis of water and soil extracts to evaluate organic and chemical pollution.
- Conducted pH analysis of soil and water samples for quality assessment.
- Conducted microbial culturing to evaluate water quality indicators.
- Gained exposure to environmental monitoring techniques for soil and water quality assessment.

## PROJECTS

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### Herbal Wine Production from Mint and Ice Apple.

May 2023 - Jul 2023

- Created herbal wine using Ice Apple (*Borassus flabellifer*) and Mint (*Mentha*) through a controlled fermentation process to improve taste and strength.
- Conducted tests to confirm antioxidant, anti-inflammatory, and antibacterial effects, showing its health benefits.
- Enhanced medicinal properties like calming, digestion support, diuretic effects, and immunity boosting with careful formulation and processing.

### The Tumor Potential Determined in Nanomaterials from Trigonelline, Characterization and Molecular Evaluation in Cancer Cell Lines

Jan 2025 - May 2025

- Synthesized plant-based nanoparticles using Trigonelline extract to evaluate their Antimicrobial and anticancer potential.
- Characterized nanoparticles using UV-Vis, SEM.
- Performed antimicrobial susceptibility testing (ABST) against four strains: Staphylococcus aureus, Pseudomonas aeruginosa, Candida albicans, and Penicillium marneffeii.
- Performed AO/EtBr dual staining, DAPI staining, and RT-PCR to analyze cell apoptosis and NF-kB gene expression.
- Evaluated cytotoxicity against MCF-7 breast cancer cell lines via MTT assay.

## CERTIFICATIONS

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- Participated in a 2-day hands-on workshop on PCR and Electrophoresis (AGE, PAGE) Techniques, organized by NIFTEM – T.
- Completed a certification course on Quality in the Pharmaceutical Industry (GMP, GLP, and GHP) from Udemy
- Completed a certification training course in Industrial Water Microbiology Techniques
- Completed a certification course on the Prevention of Antimicrobial Resistance and Infection Prevention and Control, provided by WHO.

## DECLARATION

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I hereby declare that the information contained herein is true and correct to the best of my Knowledge and belief.

**Abdul Azeez**