

A.Fahima Afshan

Personal Details

- Phone : 6379011151
- Email : afahima2shan@gmail.com
- Address : 2713,pugalenthi Street
Krishnapuram Thanjavur 613004
- Linkedin : <https://www.linkedin.com/in/fahima-afshan-247763260>



Objective

Aspiring biotechnology professional seeking to apply technical knowledge in laboratory technique. We are visiting the sugarcane industry for a day to get a general overview of the sugar factory.

Education

Course / Degree	School / University	Grade / Score	Year
SSLC	Nav Bharat Matric Higher secondary school	68%	2019 - 2020
HSC	Ponnaiyah ramajayam public higher secondary school	77%	2020 -2021
B.Tech (Biotechnology)	Periyar Maniammai Institute of Science & Technology College in Vallam, Tamil Nadu	7.99%	2021-2025

Experience

- **Microbiology** 19/07/2022 - 28/07/2022
Thanjavur Medical college
I learnt about diagnostic techniques like serology, ELISA for dengue, and PCR for COVID-19. I also gained experience in studying Gram-positive and Gram-negative bacteria and preparing and sterilising culture media using a hot air oven.
- **Food Biotechnology** 05/06/2023 - 04/07/2023
National Institute of food technology and Entrepreneurship and Management
Techniques for using culture plates were taught. FTIR spectroscopy was used to evaluate absorption in solids, liquids, and gases. UV spectroscopy was used for analysis between 100 and 400 nm.
- **Virology** 03/06/2024 - 25/06/2024
Indian council of medical research (ICMR)
I learnt how to use PCR and ELISA. Developed skills in polio testing and cell culture. Sterilisation and waste management were areas of focus.

Achievements & Awards

- Represented college at PMIST in conducted National Science day.
- We participated & certificates in open house day.
- We are participate in TANCAM's Hackathon for Tamil Nadu Women in Science and Engineering (TNWISE 2025) on the theme of "Smart Urban Development" conducted Sona College of Technology, Salem on 14th March, 2025.

Skills

- Proficient in handling electrophoresis and laboratory instruments.
- Experienced in observing autoclave, plating techniques, UV, PCR, & FTIR.
- Knowledge in MATLAB & design tools.

Projects

- **Biogenic synthesis of nano silica using citrus bioenzyme and its potential to pest control mealbugs in plants**
This environmentally beneficial process recycles garbage into something valuable while avoiding dangerous chemicals. This method of producing nano silica can aid in the control of mealybugs, which are minute pests that

suck plant sap and cause damage. When sprayed to plants, nano silica dries up and kills insects by damaging their outer layer. This strategy promotes sustainable agriculture, is cost-effective, and reduces the need for chemical pesticides. Upcoming projects

Interests

- Analytical thinker with a tendency for overthinking which fuels problem-solving ability .
- Highly sociable & talkative with close friends, fostering strong & personal connections
- Motivated and focused on self - improvement and skill development.

Languages

- Non Technical (skills) Language: English, Tamil (speaking/writing/Talking) Hindi, Urdu (speaking)

Conference

- **Green synthesis of Nano silica using citrus Extract.**

We are participated vels college the Second International Conference on Emerging Nanomaterials in Biological, Chemical and Engineering Applications (INBCEA-2025) organized by School of Sciences, Department of Chemistry, VISTAS Chennai