



Afreen Ahtesham

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EDUCATION AND TRAINING

Master of Science Industrial Chemistry Aligarh Muslim University [2020 – Current] (SGPA 9.581)

Address: Aligarh (India)
amu.ac.in

Bachelor of Science (HONS) Industrial Chemistry Aligarh Muslim University [1 Aug 2017 – 25 Oct 2020] (CGPA 8.95)

Address: Aligarh (India)
amu.ac.in

LANGUAGE SKILLS

Mother tongue(s): **Hindi, Urdu**

Other language(s): **English C1**

RESEARCH EXPERIENCES

Aligarh Muslim University, AMU
[25 March 2022- Ongoing]

Working on antibiotic detection in food and environment: the combination of sensors and nanomaterial under the supervision of Dr Mohammad Zain Khan D/o Chemistry AMU

CSIR-CBRI
[07 January 2022 – 06 April 2022]

Selected as a research intern for three months under the supervision of Dr. L.P. Singh, Supervisor & Sr. Pr. Scientist, CSIR-CBRI, Roorkee.
(Offered)

Jamia Millia Islamia
[28 December, 2021 to 20 February, 2022]

Winter internship at department of Civil Engineering under the supervision of Dr Abid Ali Khan

Worked on “Microbial Fuel Cells : a green approach for utilization of waste for generation of bioelectricity” , focusing on microbial transformation of wastes using novel bioremediation strategies.

Ganga Pollution Prevention Unit
[30 Mar 2021 – 25 May 2021]

Summer internship at Sewage Treatment Plant Deenapur, Varanasi (UP Jal Nigam).

The technology selected for the project is the activated sludge process powered by a biogas-based power plant, which will make the plant self-sustainable and reduce the operational cost, besides reducing carbon emissions significantly.

Forest Fragmentation and Impact of Intensive Agriculture

[25 Sep 2020 – 10 Nov 2021]

Research Intern at Centre for Advanced Research & Development, Indian Chamber of Food and Agriculture

Carried out a concise literature study for developing strategies which integrate biodiversity conservation and ecosystem services.

Conversion of Solid Waste to White Charcoal

[Dec 2019 – Mar 2020]

Bachelors project in Faculty of Chemistry, Aligarh Muslim University under the supervision of Dr. Anees Ahmad.

Performed Bio-charring of solid waste particularly dried leaves and determined calorific values respectively for its application.

CO-CURRICULARS

Building an Ecosystem model with Insight Maker

[Coursera Project Network]

Municipal Solid Waste Management in Developing Countries

[Certified course from Ecole Polytechnique Federale de Lausanne through Coursera]

Electric Power Systems

[Certified course from University at Buffalo, The State University New York through Coursera]

Industry 4.0 and Smart Manufacturing : Opportunities and Challenges

[Certified One Week Online Short Term Course from Dr. B.R. Ambedkar National Institute of Technology, Jalandhar India.]

CONFERENCES & SEMINARS

Bioremediation & Smart and Clean Energy Storage Devices

[American Chemical Society International Students' Chapter Aligarh Muslim University, Aligarh]

Current trends and challenges in 3D bioprinting Technology 2020 (CTC3DBT-2020)

[Webinar organized by Vellore Institute of Technology]

Industries must Act to Safeguard Biodiversity threatened by Limestone Quarrying

[Poster Presentation at National Life Science Fest "BIOSPARK" organized by F/o life Sciences, Aligarh Muslim University, Aligarh]

AWARDS & HONOURS

University Merit Financial Award

[Awarded on the basis of merit in F/o Science , Aligarh Muslim University]

University Gold Medal

[Awarded for securing highest marks, Rank 1 in BSc (Hons) Industrial Chemistry AMU]

Cash prize for presenting an innovative 3D model of periodic table

["DST&ACS" workshop organized by D/o Chemistry, AMU]

EXTRA CURRICULAR ACTIVITIES

Secretary of Molecule Club

[20 Sep 2020 – 20 Sep 2021]

Appointed for a period of one year to The Wings of Desire (NGO)

Secretary Reading Room

[Oct 2020 – Oct 2021]

Appointed for a period of one year at Begum Sultan Jahan Hall, AMU Aligarh

American Chemical Society Students' Chapter, AMU Member

VOLUNTEERING

ETCS-2020

[International Conference on "Emerging Trends in Chemical Sciences " held in D/o Chemistry, Aligarh Muslim University, Aligarh

Alumni Meet 2018

[Organized by the office of the Alumni Affairs, AMU]

