

FARIHA NOOR

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PROFESSIONAL EXPERIENCE

Hazen Research Inc, Golden, CO, USA

08/2023- present

Analytical Lab Chemist

- Working as a chemist in inorganic lab
- Primary responsibilities include:
 - Wet chemistry-
 - Gravimetric sulphate analysis
 - Loss on ignition determination
 - Free acid analysis
 - Chlorine analysis using potentiometric titrator
 - Chloride determination using UV-VIS Spectroscopy
 - Floride determination
 - Ferrous analysis

Colorado Department of Public Health and Environment, Denver, CO, USA

11/2022- 07/2023

Chemistry Lab Tech

- Working as a chemistry lab tech in the 'Lead in Water' project.
- Primary responsibilities include: Water sample receive and acidification, making standards ranged between ONTU-100 NTU, turbidity analysis, water treatment and digestion, Sample preparation for ICP-MS, Sample disposal, preparing 50% nitric acid, maintain and calibrate instrumentation.
- Closely working with the project supervisor to achieve the project goal within timeline, which involves a great amount of collaboration, learning and discussion.
- MS Excel based big data sample batch sheet preparation, uploading to Laboratory Information Management System (LIMS) and reporting to team leads.

RFI ingredients, Broomfield, CO, USA

10/2022 - 11/2022

Food Scientist (Regulatory)

- Product specification and certification
- SOP management
- Label review for new product

University of Colorado Denver, Denver, Colorado, USA

Graduate Research Assistant

05/2020-11/2021

Computational Chemistry Group, Dr Emilie Guidez

- Energy Calculation, RMSD calculation, Ionization Potential determination, Relative Energy calculation and Geometry Optimization using GAMESS SW.
- Packing of Different Gold nanoparticles with water molecules and their geometry optimization through GMS SW.

- Extract Subtracts from Ligand-Protein complexes and dock them into ligand free protein and study the docking conformation

Graduate Research Assistant

05/2020-11/2021

Organic Chemistry Group, Dr Marino Resendiz

- Synthesis of DNA, RNA related organic compounds (Guanosine, Xanthosine, Adenosine).
- Organic compounds analysis: Diazotization, Acid based reaction, Evaporation, Chromatography, UV method and NMR experiment.

Graduate Teaching Assistant

08/2020-12/2021

- Grading, solving the problem, helping the student to understand about crucial problem.

Elson Food (BD) LTD, Bangladesh

01/2016 - 10/2016

QC Chemist

- Successfully accomplished preparing new chewing product sample through research and development.
- Lab work cycles include – sample preparation, sugar content determination, acidity test, adding flavor and colors for requirements, titration.
- Worked in a highly equipped lab, that includes refractometer, muffle furnace, desiccator, pH meter and others.
- Conducted supervision of product manufacturing.

Undergrad Lab Experience (during Bachelors)

- Quantitative and gravimetric analysis • Analysis of organic and inorganic materials • Determination of fat content in soap • Water analysis: conductivity, hardness, BOC, • Viscosity measurement of glycerine
- Disintegration test of medicine • Heat transfer: equipment and operations Determination of moisture and lignin • Determination of heat of solution and heat of content of saw dust neutralization.

EDUCATION

UNIVERSITY OF COLORADO AT DENVER

2020-2021

MS in Chemistry

NOAKHALI SCIENCE AND TECHNOLOGY UNIVERSITY

2015-2017

MS in Applied Chemistry and Chemical Engineering

NOAKHALI SCIENCE AND TECHNOLOGY UNIVERSITY

2010-2015

BS in Applied Chemistry and Chemical Engineering

SKILLS

- Professional experience in State Public Health and Environment lab facility, food industry in US and abroad.
- Theoretical and practical experience on chemistry and chemical engineering.
- Molecular Modeling and simulation (Preparation, Execution and Simulation)
- Windows Efficiency (MS office tools) , Linux Server commands experience.
- Research, Development, Production, Management.

TRAINING AND ACHIEVEMENT

- Hazardous waste management training : Hazen Research Inc
- Radiation Safety Training: University of Colorado, Denver.
- Monthly long training at TICl (Training Institute for Chemical Industries), emphasized on boiler, heat transfer, PLC, solid material, handling, distillation, chromatography (Column chromatography), crystallization, spectroscopy, valve, ring, bearing, pipe, plant design, lubricant.
- Monthly long intern program under Berger Paints Bangladesh Ltd.
- Halal food certification