

NURUDDIN BAHAR

EDUCATION

MS (Biomedical Engineering) - University of Glasgow, UK 2018 - 2020

- Qualified with Distinction
- THESIS: Design and characterization of poly(ethylene glycol) laminin (PEG LM) based mechano responsive hydrogels for drug delivery and gene therapy Grade A4 (19/22)

MTech (Nanotechnology) - IISc, Bangalore, India 2015 - 2017

- Qualified with CGPA 5.9/8.0
- THESIS: Towards DNA Origami Based Magnetic Nanopropellers Grade A (7/8)

BTech (Chemical) - IIT Bombay, India 2009 - 2013

- Qualified with CPI 7.53/10.0

WORK EXPERIENCE

Research Associate (Data Analytics) 04/2024 - Present

Dr. Reddy's Laboratories, Hyderabad, India

- Working on integrating data from various instruments and systems using OSI PI
- Teamed up in designing automated reports by using biologics ELN and system data
- Developing a VBA-based digital inventory for various functions

Research Scientist (Bioprocess Engineering and MSAT) 10/2020 - 03/2024

Wockhardt Research Centre, Aurangabad, India

- Created a VBA-based robotic batch process recording application for reporting in DSP
- Conducted mock pool analysis for CIEC and RP chromatography stages using pandas
- Designed a Python-based design of experiments (DOE) user interface for experimental plans
- Assisted Formulation team by creating a Power BI-based impurity dashboard
- Created a chromatogram visualization tool using Python
- Used ML and Pareto chart of standardized effects to detect parameters affecting recovery
- Analyzed pharmacokinetic data using inferential statistics & Chi-Square contingency tables
- Created an Excel process monitoring dashboard for Yeast Insulin production batches
- Created an optimized neural network prediction interface for conversion reaction data
- Analyzed Yeast Insulin batches through data visualization and statistics

Associate Software Engineer 07/2013 - 01/2014

Exeter Software Pvt. Ltd., Bengaluru, India

- Created an online passport application portal using Salesforce
- Certified with Oracle Policy Automation 10 Rule Developer Essentials 1Z0-534

TRAINING AND INTERNSHIPS

Skill Development Trainee (CCMB, Hyderabad, India) 10/2017 - 01/2018

- Trained in advanced course on 'Cell culture, cell line derivation, human disease biology'

R & D Intern (Tridiagonal Solutions Pvt. Ltd., Pune, India) 05/2012 - 07/2012

- Developed CSTR and tank-in-series models for a plant simulation using COCO and DAE tools

Hyderabad (Telangana), INDIA
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Scholastic Achievements & Awards

- AIR 718 - IITJEE 2009
- AIR 16 - GATE (Biotechnology) 2015
- CSIR-JRF (Life Sciences) 2015, 2018

- CBSE 10th merit certificate for 100% in social science 2006

Certifications

- Certified Associate in Python Programming (Python Institute)
- MS Excel Expert (Microsoft)
- MS Word Expert (Microsoft)
- MS Outlook Associate (Microsoft)
- MS PowerPoint Associate (Microsoft)

NURUDDIN BAHAR

MS, MTech, BTech

PROJECTS

Biology Interactive Website

- Owner and webmaster of website "Musings in Biology"

CONFERENCES ATTENDED

Chemical Engineering Association Symposium (ChEA), IISc Bangalore

2017

- Presented poster on 'DNA Origami Based Magnetic Nanopropellers'

International Conference on Emerging Electronics (ICEE), IIT Bombay

2016

- Presented paper on 'Two-tier size optimization of monodispersed iron-oxide nanoparticles'

REFERENCES

Zoher Sihorwala (+91 97044 03415, +91 880 500 0670)

Head - Global Regulatory Affairs - Wockhardt Limited

Mr. Abhay Desai (+91 97668 60653)

DGM (MSAT), Wockhardt Research Centre, Aurangabad

Mr. Veeramani Kathirvel (+91 84894 50923)

Former Process Engineering Lead, Wockhardt Research Centre, Aurangabad

Prof. Banani Chakraborty (+91 87627 15604)

Ramalingaswamy Faculty Fellow, IISc Bangalore

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Skills

- MS Office Suite
- Python
- Django
- Power BI
- HTML & CSS
- Machine Learning
- Data Visualization
- Data Analysis
- VBA
- LaTeX
- JMP
- Illustrator
- SQL, PostgreSQL

Other Certifications

- LaTeX for Professional Publications