

Curriculum Vitae

Nadiah Khleel Almutlaq

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Profile

Director of the Water & Environmental Studies Center at King Faisal University with over 15 years of experience in laboratory management, academic coordination, and research. Holds an M.Sc. in Computational Organic Chemistry with a focus on nonlinear optical materials and environmental applications. Published in peer-reviewed journals including ACS Omega and Materials, and presented research at national conferences. Skilled in LIMS implementation, OSHA-certified safety management, and leading multidisciplinary research teams.

Education

- M.Sc. in Organic Chemistry – King Faisal University
 - B.Sc. in Chemistry – King Faisal University
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Experience

2025 – Present | Director, Water & Environmental Studies Center, King Faisal University

- Lead multidisciplinary water and environmental research programs.
- Revitalize dormant research facilities (lysimeter fields, greenhouses, remote sensing, and water quality labs).
- Manage center operations, staff, and research alignment with strategic goals.
- Supervise researchers and coordinate academic collaborations.
- Represent the center at specialized conferences to promote partnerships with local and international organizations.
- Oversee institutional partnerships, programs, and publications, including the KFUPM Research Centers Bulletin.

2024 | Lab Technician, Central Labs Administration, King Faisal University

- Operated laboratory instruments and supported central labs operations.
- Implemented and managed the Laboratory Information Management System (LIMS).

2015 – 2024 | Lab Supervisor & Technical Coordinator, College of Clinical Pharmacy, KFU

- Supported accreditation and quality assurance processes.
- Managed laboratories, technical staff, and training schedules.
- Coordinated practical programs with faculty members.
- Ensured safety compliance, maintenance, and documentation.

2009 – 2015 | Lab Technician, College of Clinical Pharmacy, KFU

- Operated instruments, supported faculty research, and maintained safety standards.
 - Supervised laboratory examinations to ensure compliance with academic standards.
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Publication (2022–2023)

2023

- Bayach, I., Sarfaraz, S., Sheikh, N. S., Alamer, K., Almutlaq, N., & Ayub, K. Hydrogen dissociation reaction on first-row transition metal doped nanobelts. *Materials*, 16(7), 2792. <https://doi.org/10.3390/ma16072792>
- Bayach, I., Almutlaq, N., Alkhalifah, M. A., Asif, M., Ayub, K., & Sheikh, N. S. Nonlinear optical properties and phototunable absorption of a substituted DHA-VHF photochrome pair. *ACS Omega*, 8(21), 18951–18963. <https://doi.org/10.1021/acsomega.3c01456>

2022

- Bayach, I., Al-Faiyz, Y. S. S., Alkhalifah, M. A., Almutlaq, N., Ayub, K., & Sheikh, N. S. Phototunable absorption and nonlinear optical properties of thermally stable DHA-VHF photochrome pair. *ACS Omega*, 7(40), 35863–35874. <https://doi.org/10.1021/acsomega.3c01456>
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Committees

- Laboratory Safety & Risk Committees – College of Clinical Pharmacy.
- Workforce Analysis Committees – College of Clinical Pharmacy
- Preventive Procedures Committees – College of Clinical Pharmacy

- Examination & Control Committees – College of Clinical Pharmacy
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Conferences (2023–2025)

2025

- ACS Saudi Chapter Conference – KFUPM, Dhahran (Oral Presentation #240, Accepted)
- Euro Organic Chemistry Conference – Virtual (Invited Presentation)

2023

- Food Security & Environmental Sustainability Conference – KFU
 - Green & Sustainable Environment Conference – KFUPM (Poster)
 - Saudi Society of Applied Sciences Conference – PNU, Riyadh
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Professional Development & Training Courses (2007–2025)

2025

- Fundamentals of English for Office Employees – KFU
- Successful Researcher Program (Taamoh Track) – IAU
- Successful Researcher Program (Raed Track) – IAU

2024

- Effective Employee Talent Management – KFU
- Fundamentals of Cybersecurity – Institute of Public Administration
- Safe Chemical Storage & Disposal – KFU
- Leadership Thinking Development – Al-Mubtakir Training Center

2023

- OSHA Standards for Occupational Safety & Health – KFU
- Risk Management & Assessment – TVTC
- Occupational Safety & Health (OSHA) – TVTC
- Professional Safety Specialist Development – TVTC
- Firefighting & Fire Safety – TVTC
- Digital Design & Manufacturing – KFU
- Fundamentals of Digital Transformation – IPA

2022

- Professional Writing in English – KFU
- Chemical Materials & Laboratory Waste Management – KFU
- Introduction to LinkedIn – KFU

- CV Writing Workshop – KFU
- Initiatives Planning & Implementation – KFU
- Interactive English Language – KFU

2021

- IELTS Preparation Skills – KFU
- PowerPoint Graphics – KFU
- Mind Mapping – KFU
- Laboratory Safety Guidelines – KFU
- Laboratory Waste Management – KFU
- Presentation & Public Speaking Skills – KFU
- Charismatic Personality – KFU
- Learning Mechanisms – KFU

2020

- Writing Research Papers Using LaTeX – IAU
- Python Programming for Science – IAU
- OriginLab: Graphing & Data Analysis – IAU

2019

- Forensic Toxicology – Saudi Chemical Society
- Chemistry Around Us – Saudi Chemical Society
- Achieving Excellence – Saudi Chemical Society
- Safety in Educational Laboratories – KFU
- SCIFINDER Database Introduction – KFU

2018

- Work Ethics & Conduct – KFU
- Poster Design Workshop – KFU

2017

- Database Design & Management (MS Access) – KFU
- Safety Awareness & Importance – KFU

2016

- Fundamentals of PCR Technique – KFU
- Future Prospects in Child Health – KFU

2015

- Cloud Computing – KFU
- Modern Alternatives for File Storage & Sharing – KFU

2014

- Lab Technicians & Supervisors Performance Development – KFU

2013

- Triangle of Excellence in Work Performance – KFU

2012

- Developing Research Ability – KACST
- Successful Personality Traits – KFU

2011

- Hazardous Chemical & Medical Waste Management – KSU
- Stress Management – KFU

2010

- HPLC Theory & Applications – KFU

2009

- Summer English Program – Al-Shabaka Training Institute

2008

- Graphology & Handwriting Analysis – International Academy

2007

- Leadership & Public Relations – Saudi Aramco (SciTech)
 - Problem Solving Skills – Al-Ahsa Charity Society
 - Emotional Intelligence in Children – Al-Ahsa Charity Society
 - Religious Education (Psychological Perspective) – Al-Ahsa Charity Society
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Volunteer Activities (2023–2024)

2025

- Coordination & Organization of 'Kafo' Summer Camp – King Faisal University (22/06/2025, 100 hrs)

2024

- Mentor at KFU Historical Documentary Exhibition – King Faisal University (28/01/2024, 60 hrs)
- Future Scientists Program – King Faisal University (01/11/2024, 40 hrs)
- Community Responsibility Programs – Al-Jeel Sports Club (38 hrs)

- UNCCD COP16 (Riyadh) – Volunteer support during Sustainability Innovation Week

2023

- National Arts Exhibition – College of Clinical Pharmacy, KFU (5 hrs)
- National Day Ceremony & Exhibition – KFU (25 hrs)
- Volunteer Program – Al-Jeel Sports Club (3 hrs)
- 2nd International Conference on Food Security & Environmental Sustainability – KFU (32 hrs)
- Speaker at 'Your Volunteering' Exhibition (Saudi & International Volunteer Day) – KFU (24 hrs)

Participation & Events (2010–2024)

2024

- Poster Presentation – 10th Scientific Day, College of Science, KFU
- Poster Presentation – College of Science, KFU

2023

- Academic Research Participation – 9th Scientific Day, College of Science, KFU

2021–2022

- Contribution to College Accreditation (American & Canadian) – College of Clinical Pharmacy, KFU
- Participation in 'Nabd Al-Sihha' Exhibition – College of Clinical Pharmacy, KFU

2018–2023

- 38th University Graduation Ceremony – KFU
- 39th University Graduation Ceremony – KFU
- 40th University Graduation Ceremony – KFU
- 41st University Graduation Ceremony – KFU
- 42nd University Graduation Ceremony – KFU
- 43rd University Graduation Ceremony – KFU

2010–2017

- Participation in College Activities – College of Clinical Pharmacy, KFU (multiple years)
- Participation in SciTech Events – Saudi Aramco Science & Technology Center

Skills

- HPLC, PCR, GC, Chromatography, Spectroscopy
- Gaussian, LIMS, OriginLab, LaTeX, MS Office

- OSHA Standards, Laboratory Safety, Waste Management
 - Leadership, Project Management, Academic Writing
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Languages

- Arabic – Native
 - English – Good
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References

Dr. Imane Bayach – Supervisor (M.Sc.)

Email: i.bayach@gmail.com | ibayach@kfu.edu.sa

Dr. Nadeem Sheikh – Former Supervisor

Email: nss.kfu@gmail.com