



MOHAMMAD DIAB

Chemical & Biological Engineer

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CAREER OBJECTIVE

Chemical & Biological Engineer with proven expertise in quality control, quality assurance, and laboratory management across construction materials, chemical admixtures, and biotechnological systems. Strong academic background in chemical engineering and molecular biology, with hands-on research experience in genome editing, genome modification, and laboratory-based R&D through university coursework and internships. Passionate about integrating engineering principles with scientific research to optimize processes, ensure regulatory compliance, and support innovation in both industrial and academic environments.

AREA OF EXPERTISE

- Quality Control & Assurance (Concrete, Admixtures, Lab Testing)
 - Process & Laboratory Management
 - Data Analysis and Technical Reporting
 - Project Management and Coordination
 - Regulatory Compliance (ACI, ASTM, EN, ISO)
 - Team Leadership
 - Process Optimization & Continuous Improvement
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CORE COMPETENCIES

- Strategic problem-solving and root cause analysis to maintain high-quality standards.
 - Strong technical expertise in material testing, biochemical assays, and analytical instrumentation.
 - Proven ability to manage QC documentation, audits, and standard operating procedures.
 - Skilled in project planning, coordination, and process improvement initiatives.
 - Effective communicator capable of collaborating across engineering and laboratory teams.
 - Advanced Microsoft Office Suite and data management proficiency (Excel, Word, PowerPoint).
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CERTIFICATIONS

- ACI Concrete Field-Testing Technician – Grade I
 - ISO 17025:2017 Laboratory Quality Management
 - ASTM Concrete & Materials Testing Certification
 - EN 206 / BS 8500 Concrete Standards Training (BSI)
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PROFESSIONAL EXPERIENCE

QC/QA Assistant Manager (Concrete, Admixtures & Building Materials)

Araco Primer – Limassol, Cyprus | 2024/10 – Present

- Supervise QC and QA activities for ready-mix concrete, admixtures, and construction materials.

- Conduct lab and site testing of fresh and hardened concrete (slump, air content, strength, durability).
- Evaluate admixture performance including HRWR, retarders, and accelerators.
- Develop and maintain QC documentation, mix designs, and inspection reports.
- Coordinate between lab, batching plant, and site teams for production management.
- Implement corrective and preventive actions ensuring compliance with ACI, ASTM, and EN standards.
- Support clients with technical insights and product troubleshooting.
- Train technicians on testing methods, documentation, and safety.

Assistant Project Manager (Remote)

Charter Communications USA | 2024/ – 2025/08

- Led remote assessment of utility poles in California under Charter Communications.
- Utilized Talon 3D modeling tools to inspect and analyze pole-mounted electrical components.
- Maintained Salesforce records ensuring accurate data tracking and efficient coordination.

UNIVERSITY LABORATORY EXPERIENCE – BIOLOGICAL ENGINEERING

- Performed cell and tissue culture under sterile conditions.
- Conducted DNA extraction, PCR, gel electrophoresis, and bacterial transformation.
- Operated bioreactors and fermentation systems for enzyme production.
- Analyzed enzyme kinetics using spectrophotometry and kinetic modeling.
- Designed biosensors and bioinstrumentation systems for analytical detection.
- Executed chemical reaction engineering and reactor performance experiments.
- Performed fluid mechanics, heat, and mass transfer operations.
- Applied process control and instrumentation using MATLAB.

INTERNSHIP

American University of Beirut (AUB) - Genetics Research Laboratory | 2023/6/15 – 2023/09/18

- Conducted laboratory research in genome editing and genome modification techniques.
- Assisted in molecular biology experiments, data collection, and analysis.
- Supported ongoing R&D projects within the department's research laboratories.
- Gained hands-on experience with academic research workflows, lab safety, and experimental documentation.

EDUCATION

- Master of Science: Chemical Engineering – Üsküdar Univ., Turkey 2025/9 – Present (Expected Graduation: 2026/6)
- Bachelor of Science: Bioengineering – Üsküdar Univ., Turkey 2020/9 – 2024/6

PROJECTS

- **AI-Enhanced Drug Delivery System:** Developed predictive model using LSTM to analyze glucose levels.
- **Pharmacokinetics of Over-the-Counter Pain Relievers:** Conducted full analysis of OTC absorption and metabolism.

LANGUAGES

Arabic – Native | English – Proficient | Turkish – Intermediate