

# FAHMI ABU-OWAIMER

Senior Laboratory Specialist | Laboratory Manager | Research & Development

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## Contact Information:

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- **Nationality:** Jordanian

## Professional Summary

A highly accomplished **Senior Laboratory Specialist** and **Laboratory Manager** with over 30 years of extensive experience in **laboratory establishment, operations, and management** within medical, educational, and research institutions. Proven expertise in implementing **quality assurance standards**, integrating **modern laboratory technologies**, and driving **innovation** in diagnostic and research settings. Advanced proficiency in **diagnostic biotechnology, data analysis, electronic system design, and laboratory equipment management**. Committed to advancing scientific and academic excellence through practical application and collaborative research. Seeking to leverage deep expertise in **lab consulting, equipment selection, and operational optimization** to contribute to leading organizations.

## Core Competencies & Technical Skills

- **Laboratory Establishment & Design:** Lab Setup, Equipment Selection & Procurement, Infrastructure Planning, Workflow Design, Facility Management, Laboratory Commissioning.
- **Laboratory Management & Operations:** Quality Control (QC), Regulatory Compliance, Inventory Management, Workflow Optimization, Equipment Maintenance, Safety Protocols, Budget Management, Staff Training & Development.
- **Diagnostic & Analytical Techniques:** ELISA, Electrophoresis, Chromatography, Biochemical Analysis, Hormone Assays, Radioimmunoassay (RIA), Clinical Chemistry, Hematology, Urinalysis, Specialized Clinical Tests.
- **Biotechnology & Research Support:** Diagnostic Biotechnology, Research & Development (R&D) Support, Experimental Design Consultation, Data Interpretation, Scientific Reporting.
- **Data & Technology:** Data Analysis, Database Management, AI Tools, Electronic Systems Design, Microcontrollers, IoT Systems, Computer Programming, Operating Systems (Windows, Linux), Microsoft Office Suite.
- **Leadership & Communication:** Project Management, Team Leadership, Cross-functional Collaboration, Problem-Solving, Training & Mentoring, Technical Writing, Presentation Skills.

## Professional Experience

### Alfaisal University – College of Medicine Laboratories, Senior Laboratory Specialist

Riyadh, KSA / September 2008 – Present

- **Led the design, establishment, and operational oversight** of multiple college laboratories, including anatomy, morgue, microbiology, human physiology, and skills labs, ensuring full functionality and compliance.
- **Spearheaded the establishment of the research lab** and currently **manage the physiology lab**, optimizing daily operations and resource allocation.
- **Managed all College of Medicine lab purchases for four years**, strategically selecting high-quality equipment at competitive prices, resulting in **zero shortages** of essential equipment and consumables since inception.
- **Fostered interdisciplinary collaboration** with the Colleges of Engineering and Pharmacy on critical research and practical projects, contributing to cross-functional advancements.

### Medical Consultant Polyclinics, Laboratory Manager & Specialist

Riyadh, KSA / June 1997 – August 2008

- **Founded and managed a fully operational medical laboratory**, consistently ensuring **high diagnostic accuracy and stringent quality control** standards.
- **Implemented advanced diagnostic workflows**, leading to **significant improvements in efficiency and reliability** of patient testing procedures.
- **Leveraged expertise gained at King Khalid University Hospital** to enhance overall laboratory operations and service delivery.

### King Khalid University Hospital, Volunteer Work - Biochemistry & Research Laboratory Specialist

Riyadh, KSA / March 1995 – February 1996

- **Gained extensive hands-on experience** in advanced diagnostic techniques, including ELISA, Electrophoresis, and Chromatography.
- **Successfully conducted specialized tests** such as hemoglobin fractionation, glycated hemoglobin analysis, and rare hormone assays using radioactive isotopes and gamma counters.
- **Managed comprehensive laboratory operations**, encompassing equipment calibration, quality control, sample preparation, workflow optimization, result validation, and reporting.
- **Acquired proficiency in operating major biochemical analyzers**, including Dimension, Hitachi systems, and Roche hormone analyzers.
- **Developed and implemented systematic approaches** to optimize lab workflows, **minimizing human errors** and ensuring operational efficiency.
- **Entrusted with training medical internship students** in lab analysis techniques within one month of joining, demonstrating strong mentorship abilities.
- **Contributed to early detection efforts** by performing numerous Thyroid Function tests for newborns.

## King Saud University – College of Science, Diabetes Research Assistant (Part-Time)

Riyadh, KSA / May 1990 – 1992

- **Performed C-peptide analyses** utilizing Radioimmunoassay (RIA) techniques and gamma counters, contributing to diabetes research.

## Arab Engineers Trading Company, Computer Programmer & Secretary

Riyadh, KSA December 1992 – May 1994

- **Updated and optimized inventory management systems** leveraging database expertise, enhancing operational efficiency.
- **Streamlined the ordering process** from RS Components (UK) by transitioning from fax to direct modem orders, significantly reducing lead times.
- **Managed over 75,000 product categories** and efficiently handled urgent DHL orders, ensuring the timely delivery of critical components.

## Education

**Bachelor of Science in Biochemistry** | King Saud University, Riyadh, KSA | 1989

## Memberships

- Saudi Commission for Health Specialties (SCFH) - **Licensed Lab Specialist**

## Publications

- *Regional functional and structural abnormalities within the aorta as a potential driver of vascular disease in metabolic syndrome*  
OZ Ameer, IM Salman, AY Alwadi, A Ouban, FM Abu-Owaimer, ...
- *Experimental Physiology 106 (3), 771-788 Exploring Dupilumab for Asthma: From Mechanistic Insights to Clinical Outcomes, Safety and Cost-Effectiveness*  
Authors: Omar Z Ameer, Ghaith K Mansour, Raghad S Al-Amoudi, Fahmi M Abu-Owaimer  
Publication date 2025/8/6
- **Ongoing Research:** Currently involved in a research project anticipated for future publication.

## Advanced Technical Skills & Innovation

- **Electronics & Control Systems:** Circuit Design & Fabrication, Microcontroller Programming (Arduino, Raspberry Pi), IoT Systems, Smart Home Integration, Automotive Electronics (CAN Bus, Reverse Engineering, **Thermal Management & Cooling/Heating Systems**).
- **Programming & Data Tools:** Python Programming, Data Analysis (Excel, MATLAB), AI Tools (Application & Utilization).
- **Innovation & Prototyping:** Innovated and manufactured eight “Human-safe Stimulator 0-100V” devices for Biopac systems, operating efficiently since 2009, significantly enhancing physiology lab capabilities.
- **Interdisciplinary Application:** Applying electronics and programming skills to Electrophysiology measurements and assisting engineering students with projects.