



CONTACT

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• Lyon, France

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SKILLS

Research & development

- System development and optimisation
- Design of experimental protocols
- Sensor characterisation
- Data analysis and interpretation
- Experimental problem solving

Analytical techniques

- Physico-chemical and microbiological analyses
- Electrochemistry: EIS, CV, OCP, Mott-Schottky
- Chromatography: HPLC, GC, SFC
- Spectrometry
- Scanning electron microscopy (SEM)
- qPCR

Quality & industrial environment

- Quality control
- Stability monitoring
- Validation
- GMP
- ISO 22716
- QHSE
- 5S / 5M
- Non-conformity follow-up
- Continuous improvement

Software

- MATLAB
- Igor Pro
- OrigaMaster
- Microsoft Office
- Inkscape

LANGUAGES

Arabic
Native

French
Fluent

English
Fluent

Rihab Darghouthi

Engineer | PhD candidate in electrochemistry

With multidisciplinary experience in R&D, formulation, characterisation and quality control, at the interface between chemistry and biology, I develop and optimise experimental solutions that meet requirements of performance, reproducibility and quality.

PROFESSIONAL EXPERIENCE

SINCE JAN. 2024

R&D engineer — CNRS PhD candidate, ANR SYSCO project

Ampère / INL laboratory — with STMicroelectronics and LTM, Lyon

Development and optimisation of electrochemical and ChemFET sensors for water quality monitoring.

- ✓ Design and optimisation of ion-selective polymer membranes.
- ✓ Development of experimental protocols and electrochemical characterisation.
- ✓ Data analysis and interpretation: sensitivity, selectivity, stability and reproducibility of the devices.
- ✓ Scientific communication: papers, posters and oral presentations at international conferences.
- ✓ Work with multidisciplinary teams and academic and industrial partners.

MAR. — SEPT. 2022

R&D engineer

InsERM — Lyon Neuroscience Research Centre

Design and development of miniaturised electrochemical microsensors for the study of intratumoral metabolism.

- ✓ In vivo experiments on preclinical models: stereotaxic surgery, data acquisition and analysis.
- ✓ Multidisciplinary teamwork and regular presentation of experimental results.
- ✓ Application of laboratory hygiene and safety rules.

AUG. — SEPT. 2021

Formulation & quality control engineer

Socopar — cosmetics and perfumery company, Tunisia

Formulation and development of cosmetic products; physico-chemical characterisation and stability monitoring.

- ✓ Quality control of finished and semi-finished products, identification and follow-up of non-conformities.
- ✓ Quality and continuous improvement: GMP, ISO 22716, internal audits, validation, control charts, 5M method.

JUL. — AUG. 2021

Production & quality control engineer

Hikma Pharmaceuticals, Tunisia

Monitoring of pharmaceutical formulation and production operations.

- ✓ Physico-chemical and microbiological analyses of products.
- ✓ Microbiological control of purified water and of the production environment.

AUG. — SEPT. 2020

Assistant engineer, chemistry & environment

Gafsa Phosphate Company (CPG), Tunisia

Monitoring of the phosphate production process, chemical and chromatographic analyses (HPLC).

- ✓ Quality control of waste water, metal assays and analysis of industrial effluents.

JAN. — SEPT. 2019

Quality control & QHSE technician

Société Médic des produits alimentaires (Daily'n), Béja, Tunisia

Quality control of pre-packaging and production.

- ✓ Participation in internal audits of the QHSE system.

EDUCATION

Since 2024

PhD — electrochemistry & sensors

INSA Lyon — EEA doctoral school

Fabrication and characterisation of ChemFET sensors for water quality studies.

2017 — 2023

Engineering degree — industrial biology

INSAT, Tunisia

Multidisciplinary training in biology, chemistry, processes, biotechnology and innovation.