

# EN-NEITA KHAYYA

R&D | Process & Quality Specialist

PhD-qualified scientist with expertise in membrane technologies, process development, and analytical chemistry. With a proven record of turning complex research into practical industrial solutions.

## EDUCATION

- **PhD in Experimental Physics**, Universität Bielefeld, Germany (2021–2025, magna cum laude)
- **MSc in Analytical Physical Chemistry**, University of Mohammed V, Morocco (2018–2020, First Class Hons)
- **BSc in Fundamental Chemistry**, University of Mohammed V, Morocco (2014–2017)

## WORK EXPERIENCE

- **R&D Intern – Everest Carbon, Berlin, (08/2025 – PRESENT) Germany**
  - Managed laboratory operations, executing advanced experiments including titrations and ion-selective electrode (ISE) measurements.
  - Contributed to the design, assembly, and testing of innovative CO<sub>2</sub>-capturing sensors to enhance prototype performance.
- **Doctoral Research Associate – Universität (07/2021 – 07/2025) Bielefeld, Germany**
  - Researched mass transport through nanomembranes using radioactive tracer analysis.
  - Designed and optimized reverse osmosis and nanofiltration experiments to boost separation efficiency.
  - Fabricated and characterized 2D nanomaterials using vacuum technology and precision instruments (XPS, AFM).
- **Researcher – Moroccan Foundation of (01/2019 – 09/2020) Advanced Science Innovation, Rabat, Morocco**
  - Conducted advanced XRD studies to assess material properties and support R&D development.
  - Produced and purified metallic nanoparticles for photonics applications.
  - Applied separation techniques to improve material purity, diffraction efficiency, and plasmonic performance.

## SKILLS

- Analytical Techniques: UV-VIS, IR, XPS, SEM, TEM, mass spectrometry, and liquid scintillation counting.
- System optimization, performance tracking, pilot studies, cost estimation.
- Vacuum & Sensor Technology
- Quality & Compliance: Documentation, reporting, safety standards (Radiation Safety certified).



## CONTACT

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## LANGUAGE

- English (native)
- French (advanced)
- Arabic (native)
- German (basic).

## KEY STRENGTHS

- Clear communication and teamwork
- Analytical problem-solving
- Time management and adaptability
- Initiative and emotional intelligence

## CERTIFICATIONS & TRAINING

- Radiation Safety Training, Universität Bielefeld (2023)
- Certified Project Management Associate, Universität Bielefeld (2023)