

# Nutrix

*Developing Hormone Intelligence*

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## Senior Biosensor Interface Engineer

**Location:** Lausanne

### The problem

Stress-related illness, burnout, and endocrine disorders affect hundreds of millions of people and drive a fast-growing share of global healthcare cost. Cortisol and other key hormones are still measured the way they were forty years ago: in a clinic, once, on a single morning. There is no equivalent of continuous glucose monitoring for the endocrine system. We are building it.

### About Nutrix

Nutrix is a Swiss medtech company building the first continuous hormone monitoring platform. Our technology turns hormone signals into actionable intelligence for clinicians, patients, and occupational health programs. We are scaling a proprietary biosensor from validated prototype to industrial manufacturing and FDA clearance, and we are looking for a senior engineer to take ownership of the polymer recognition layer at the heart of our sensor.

### What you will do

- Develop, optimize, and characterize synthetic polymer matrices that provide selective recognition of small-molecule biomarkers at picomolar to nanomolar concentrations.
- Translate bench-scale polymer chemistry into reproducible, scalable coating processes for electrochemical sensor substrates.
- Design and run selectivity, affinity, and stability studies, including cross-reactivity panels against structurally related interferents.
- Own the chemistry transfer from R&D to GMP manufacturing in collaboration with our Biopôle team.
- Extend the platform to new sensor indications, adapting the recognition chemistry to additional hormone and small-molecule targets.
- Work closely with the manufacturing team on a daily basis to ensure chemistry, process, and product release stay aligned as the sensor scales.
- Contribute to IP strategy, regulatory technical files, and scientific publications.

## What we are looking for

- PhD (or MSc with strong equivalent experience) in polymer chemistry, analytical chemistry, materials science, or a closely related field.
- Hands-on experience with functional polymer synthesis (radical polymerization, electropolymerization, or sol-gel approaches), surface functionalization of electrodes, and characterization of selective binding behavior.
- Comfort with electrochemical methods (EIS, CV, DPV) and standard analytical techniques (HPLC, LC-MS, FTIR, SEM).
- Track record of moving polymer chemistry from concept to reproducible product, ideally in a regulated environment (ISO 13485 a plus).
- Fluent English. Swiss work permit.

## Nice to have

- Experience with biosensor or diagnostic device development.
- Familiarity with biomimetic recognition strategies or synthetic affinity systems as alternatives to antibodies and aptamers.
- Experience scaling polymer coatings to roll-to-roll, screen printing, or microfabrication processes.

## Why Nutrix

You will join a global team building the first platform for hormonal intelligence, working on a technology that is already commercially deployed. Two CES Innovation Awards in Digital Health (2025 and 2026), ISO 27001 certified, VC backed.

## How to apply

Please send your CV and a short motivation letter explaining how you would contribute to this project to [talents@nutrix.tech](mailto:talents@nutrix.tech).