



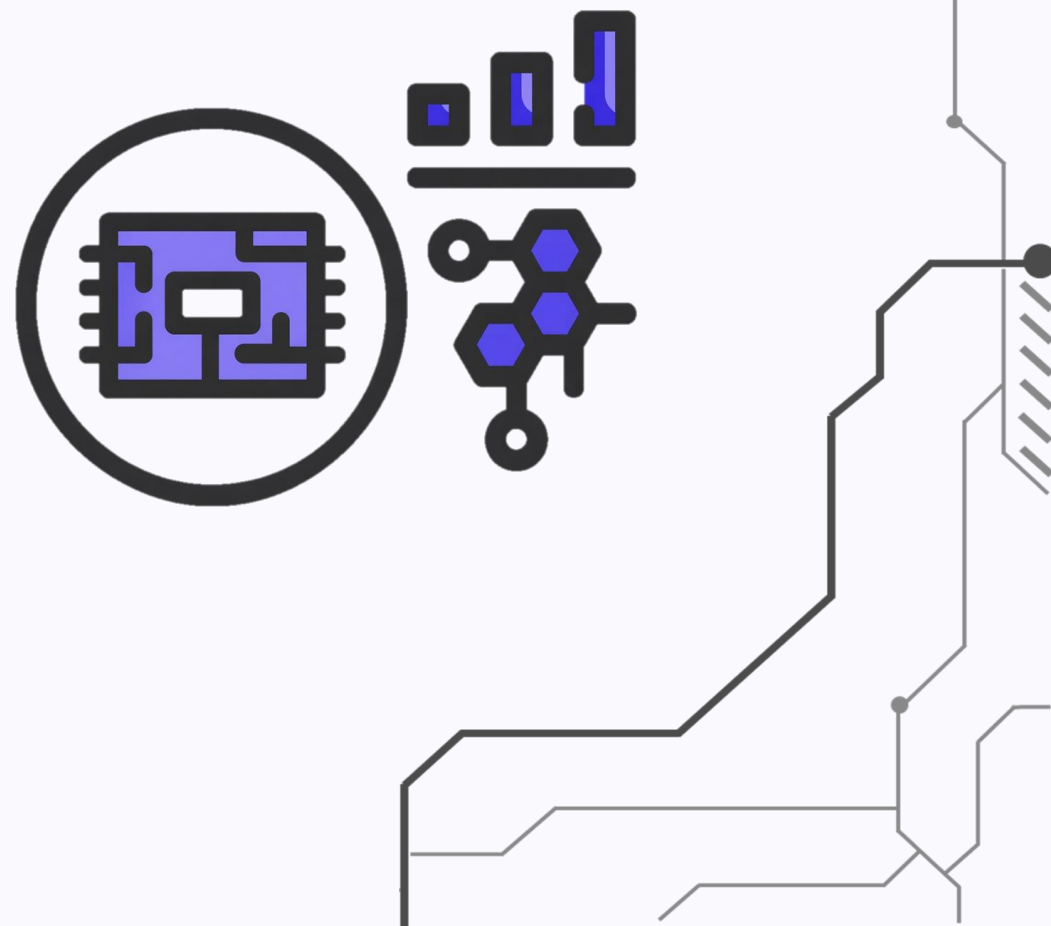
Biosensor R&D Services

Early-stage life-science support for teams developing electrochemical biosensors from molecular target to experimental proof-of-concept.

SERVICE OFFERING

- **Electrode functionalization** • **Aptamer immobilization**
- **Assay development** • **Electrochemical testing** • **Medical expertise**

A focused Contract R&D layer around the sensing chemistry and early experimental validation — not a medical hardware house.



Proof-of-Concept aptamer biosensor development

We help life-science teams understand the application context, design the experimental workflow and generate the first data that moves the technology forward.

- **application context:** current workflow, competitors and alternative methods
- **development plan:** assay strategy, immobilization workflow, readout and validation steps
- **strong points**, weak points and **key technical risks**
- **the problem the sensor can solve** and the smallest useful next experiment



Typical work combines medical/application expertise with aptamer chemistry, SPE functionalization, electrochemical testing and data interpretation.

Choose the smallest program that moves the technology forward

01

Biosensor Feasibility Study

Can this target become a working biosensor?

Target assessment, scientific and application context, assay concept, sensor architecture, first tests and go/no-go recommendation.

02

Proof-of-Concept Development

Turn the concept into experimental evidence.

Electrode preparation, aptamer immobilization, electrochemical readout, calibration and preliminary performance data.

03

Sensor Optimization & Validation

Improve performance and generate reliable data.

Sensitivity, repeatability, dynamic range, matrix effects, interference and assay optimization.

04

Custom R&D Program

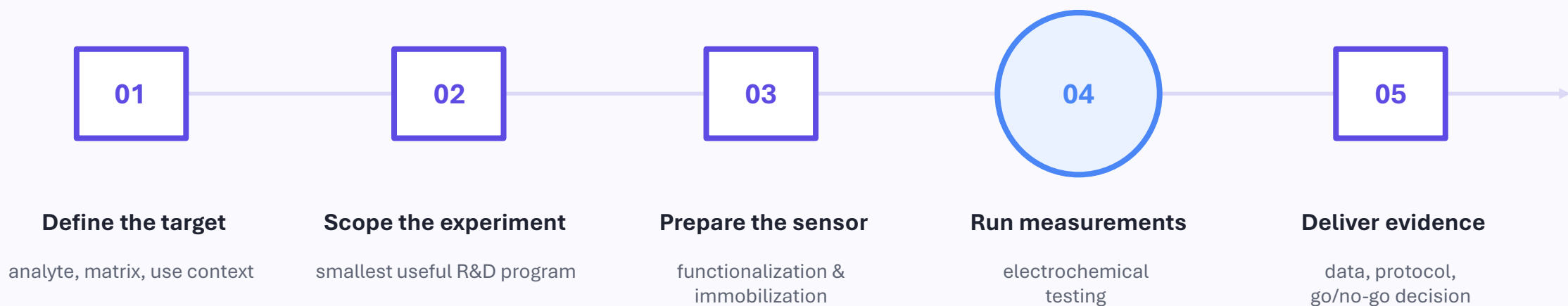
Extend your R&D team without building it in-house.

Dedicated experimental work, iterative development, data analysis and regular technical reviews.

R&D engagements typically start at €4,000. Each project is scoped individually based on the scientific objective and required experimental work.

A pragmatic workflow from question to data

The first engagement should be small enough to start quickly and specific enough to move the technology forward.



TYPICAL FIRST STEP: FEASIBILITY OR PROOF-OF-CONCEPT

The missing integration layer for early biosensor R&D

Many suppliers provide instruments, electrodes or binders. Few teams combine application context, aptamer chemistry and hands-on electrochemical development.

- Several years of hands-on work with aptamers, biosensors and electrochemical readout.
- We are developing our own diagnostic biosensor platform from target selection to sensing layer and readout.
- We completed a paid industrial proof-of-concept project for an external diagnostics client.
- Medical expertise helps us assess current standards, competitors, alternative methods and real-world use cases.

Our role is to make early biosensing technologies experimentally credible: immobilization, testing, interpretation and next-step decisions.



Small, focused and technically hands-on

Aptamedica is a Kraków-based startup team combining biophysics, medicine, electrochemical sensing and early product R&D.

TEAM

Biophysicists + Medical Doctor

Scientific, medical, experimental and startup/product experience in one compact team.

SETUP

Lab bench

Aptamer immobilization, electrode functionalization, electrochemical and calibration workflows.

EXPERIENCE

Paid contract R&D project for an external diagnostics company.



Let's start with one selected project

A first engagement can be a focused feasibility study, proof-of-concept, optimization sprint or early validation project.

Best starting point

Send us the target, matrix, current development stage and the technical question you need answered.

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