Electrochemical hardware development

Mechanical engineering for stacks and reactors, from the first design review through prototype builds and manufacturing handover.

Choose an engagement

Timing varies with scope and inputs.

Design review & risk assessment

3–5 business days · Fixed fee

Before the next build, review drawings, calculations and test data to identify the highest risks.

Design risk report, prioritized actions and recommended tests.

Design & build sprint

1–3 weeks · Fixed sprint or weekly rate

Resolve a specific prototype, assembly or subsystem issue through focused design iterations.

Updated CAD, a decision record and a test or next-build package.

Stack engineering & productization

6–12+ weeks · Phased engineering

Develop the repeat unit, load path and stack interfaces, with agreed review and release gates.

CAD, drawings, calculations, bill of materials and design risk analysis.

Technical development advisory

3-month initial term · Monthly retainer

Bring independent hardware judgment to architecture, vendor, test and failure-review decisions.

Recurring technical sessions and a written decision and action log.

How the work is shared

Your team supplies the chemistry, membrane and process requirements. CalibR owns the agreed hardware design, calculations and supplier coordination. Fabrication, testing and specialist simulations are coordinated with the project's selected facilities and providers.

Discuss a project

Share the hardware question, available inputs and your next build or decision.

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