

Capabilities

Helix Strategies, LLC

HELIX 125 Ann Arbor Edmond, OK 73013 miles.mans@helixaistrategies.com	Company: Helix Strategies, LLC Structure: Oklahoma LLC Parent: Helix Strategies Holdings, Inc. Founded: December 2025
620.842.2716 helixaistrategies.com	CONTACT Miles Mans Founder & CEO

Who is Helix?

Helix Strategies builds the computational and AI systems that turn life sciences research into reproducible results, running target discovery, protein design, and scientific software as one connected loop with full provenance. The same data engineering engine behind our energy work extends directly to bioprocess, lab instrumentation, and research operations.

“ **Real systems, built for real research, deployed inside your program.** ”

CORE CAPABILITIES

- Historian & time-series infrastructure for bioprocess & lab systems
- LIMS, instrumentation & sensor data integration
- Anomaly detection for experimental & manufacturing data
- GxP-aligned governance & audit evidence
- Single-cell & spatial transcriptomics
- Multi-omic data integration
- Differential expression & pathway analysis
- Target identification & ranking frameworks
- Biomarker discovery & prioritization
- Computational protein design & engineering
- AI-guided sequence & structure generation
- Binder & interaction-partner design

NAICS

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KEY DIFFERENTIATORS

- Discovery, design & software run as one connected loop
- Full provenance and audit-ready outputs
- Domain-embedded, not a generic data vendor
- Fixed scope or embedded partnership models
- Complimentary discovery conversation before any paid work
- Same data engineering engine proven in complex, regulated operations

LEADERSHIP DEPTH

- Computational biology & cardiovascular disease research (OUHSC)
- AI-enabled protein design & structural biology
- Enterprise time-series & operational data engineering, translatable from energy to bioprocess & lab systems
- Full-stack platform & systems engineering
- Strategy, capital & go-to-market

- Structure prediction & developability assessment
- In silico candidate screening
- Design-build-test strategy development
- Scientific & biomedical AI assistants & retrieval-augmented generation
- Scientific knowledge bases & evidence graphs
- Research workflow automation
- Human-in-the-loop review systems
- Provenance, traceability & audit-ready outputs
- R&D strategy & hypothesis prioritization
- Experimental design & in vivo/in vitro study planning
- Wet-lab validation of computational findings
- Scientific literature review & evidence synthesis