

Build the future of healthtech & life sciences with Google Cloud

Google Cloud HCLS product suite overview



Accelerating healthtech & life sciences innovation

Scale and secure your HCLS startup on Google Cloud

Google Cloud's unified stack provides HCLS startups with an integrated platform that eliminates the complexity and time consuming work of stitching together different systems, standardizing legacy clinical formats, and managing slow security reviews. By aligning built-in compliance, enterprise-grade security, and industry-specific AI models directly on standard infrastructure, you can securely transition from compliance prototypes to production at record speed.

Specialized pathways: Google Cloud solutions for HCLS segments

HCLS segment	Challenges & use cases	Recommended product suite	What are startups doing?
Digital health & clinical operations	Overcoming data silos, standardizing workflows, reducing clinician burnout, and deploying secure assistants. • EHR integration & FHIR mapping • Care-navigation & documentation • Population health analytics	• Health AI Developer Foundations (HAI-DEF) • MedGemma • MedASR • Gemini Enterprise Agent Platform • Cloud Healthcare API • Cloud Run & GKE • Firebase & BigQuery	EQL utilizes Firebase as its high-speed database to keep data up-to-date and leverages the Gemini Enterprise Agent Platform to build AI models and digital twin environments for personalized treatment planning.
Biotech & drug discovery	Accelerating molecular modeling, biological simulations, and automating virtual screening campaigns at scale. • HPC for biomolecular simulation • AlphaFold models • 3D candidate affinity & toxicity screening	• Gemini Enterprise Agent Platform • AI Hypercomputer (GPUs/TPUs) • AlphaFold Server • TxGemma Open-Weight Model • Google Multiomics Suite • BigQuery serverless analysis	SyntheticGestalt accelerates drug and enzyme discovery by using Google Kubernetes Engine to scale computing power, BigQuery and the Gemini Enterprise Agent Platform to manage AI workflows, and AlphaFold models to predict protein structures.
Medical imaging & diagnostics	Streamlining complex radiology and pathology annotation, and automating manual image preparation workflows. • AI-assisted image labeling • Multimodal imaging diagnostic AI • Automated DICOM de-identification	• Medical Imaging Suite • Cloud Healthcare API (DICOM Store) • MedSigLIP, and HeAR models • NVIDIA - BioNeMo, Nemotron, Clara, MONAI	Cerebra AI develops AI software for analyzing non-contrast CT scans, with a focus on early stroke and cancer detection. It fine-tunes MedGemma on NCCT images and leverages Gemini's few-shot generalization capabilities to rapidly adapt the model for various diagnostic tasks.

High-impact HCLS building blocks

1. Health AI developer foundations (HAI-DEF)

A suite of domain-specific, open-weight models serving as compliant, pre-clinical building blocks that developers can fine-tune in their own private environments.

- **MedGemma:** Specialized for EHR interpretation, clinical document summarization, medical reasoning, and structured, free-text report writing.
- **TxGemma:** Engineered to predict molecular parameters, toxic profiles, candidate binding affinities, and automate biological synthesis planning in drug discovery.
- **MedSigLIP:** Highly data-efficient vision-language model trained to simultaneously align imaging files with medical text for zero-shot clinical classification.
- **MedASR:** Speech-to-text model based on the Conformer architecture that is pre-trained for medical dictation and transcription. Developers can use MedASR as a foundational model to build efficient healthcare-based voice applications.

2. Gemini Enterprise Agent Platform

A unified model lifecycle console (built on Vertex AI) that enables rapid orchestration, clinical grounding, and deployment of medical AI assistants.

- **Proprietary clinical grounding:** Directly links models to hospital-private EHR structures, diagnostic guides, and search indices to mitigate hallucinations.
- **Build lane:** Developers use Vertex AI Agent Builder to build custom agents that orchestrate multi-step autonomous workflows for clinical trial monitoring and virtual compound screening.
- **Empower lane:** Provides low-code/no-code workspaces where non-technical staff can safely deploy self-service administration and compliance-drafting agents.
- **Model and agent gardens:** Allow for seamless integration or publishing of 3P models and agents.

3. Cloud healthcare API

Standardizes and secures unstructured, legacy medical data for downstream AI application training and query in regulated spaces.

- **Clinical interoperability:** Native ingestion and bidirectional translation of legacy records into FHIR (specifically FHIR R4), HL7v2, and PACS DICOM web standard stores.
- **Automated DICOM de-identification:** Completely strips patient Protected Health Information (PHI) and metadata markers from medical imaging files (X-rays, MRIs) before model training.
- **Sovereign search & query:** Index and search clinical files in place exactly where they live, enabling predictive SQL analysis in BigQuery while avoiding the latency of manual data migrations.

Get started: fuel your runway & accelerate revenue

Extend your startup's runway by applying to the Google for Startups Cloud Program. Eligible AI-first VC-funded startups unlock up to \$350,000 USD in Cloud and AI credits over 2 years, covering 24/7 Enhanced Support (up to \$12,000 USD value), and 12 months of free Google Workspace Business Plus.*

Unlock Enterprise Procurement: As you grow, list on Google Cloud Marketplace to bypass health system vendor onboarding and let customers purchase software using pre-committed Google Cloud spend.*

*Terms apply

Resources: [HIPAA Compliance on Google Cloud](#)