Google Cloud

Solutions for Higher Education

Bring out the best in your students, researchers and staff with innovative solutions from Google Cloud. Our higher education solutions meet your unique needs: they integrate with your existing infrastructure and are available through our predictable pricing model.

Student Success Services
Attract and retain your current students and the next generation

- **Reimagine enrollment and admissions management**. Enable intelligent admission processing and optimize financial aid distribution to achieve your target recruiting goals around tuition revenue, academic performance, and diversity.

- Maximize academic outcomes and student retention with an **AI-powered tutor or virtual agents for 24/7 personalized support** in more than 120 languages.

- Break down silos and get actionable **insights from your teaching and learning data** by pulling insights from data across your LMS, SIS and LTI systems. Take advantage of Google's smart analytics and AI to predict academic performance and intervene to prevent drop-outs.

- **Ensure student safety and campus health** with contact tracing, vaccine distribution, digital immunization credential management, and isolation services. Empower your teams with self-service real-time analytics to make data-driven decisions at anytime.

Michigan State University	**University of Minnesota Rochester**	**Strategic Education**
Enrollment increase by over 20% and generated +$5M in additional net tuition revenue in the first year of launch	Building NXT GEN MED on Student Success Services to reimagine the education of future healthcare leaders.	24/7 virtual agents handles +93% of live chat volume, suggests learning paths, handles enrollment operations

Infrastructure Modernization
Optimize operations and ensure the best experience for remote working and hybrid learning

- **Improve collaboration**, streamline instruction, and **keep your learning environment secure** with Google Workspace for Education.

- **Automate business processes without coding** with AppSheet. Improve your TCO from IT Operations with **fully-managed hybrid cloud services**. Avoid vendor lock-in & licensing fees.

- **Reduce costs, increase agility, and foster innovation** by modernizing and migrating your mainframe applications, virtual desktop instances and other legacy systems.

> " *The relationship with Google Cloud is a key step in Georgetown's strategy to continuously modernize its information technology infrastructure to support the evolving needs of our students, faculty and researchers.*
>
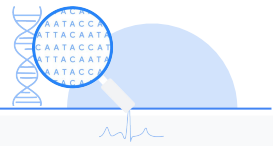> **Judd Nicholson**
> Vice President & CIO

Manhattan College	**Brown University**	**Georgetown University**
Migrated Banner and Data Warehouse to Google Cloud to manage them more effectively at a fraction of the cost	Uses Google Workspace for Education to maximize collaboration and assure secure information sharing yielding lower IT cost	Migrated Central IT and HPC infrastructure to Google Cloud and save $xM/year in TCO

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High Performance Computing (HPC)
Accelerate time to insight, reduce cost of reproducibility, and integrate easily with schedulers

- **Cut the queues** by gaining dynamic access to storage, computing and machine learning services. Leverage pre-emptible VMs with a fixed 80% discount for vCPUs and up to 50% off for GPUs and TPUs.

- **Integrate with the most common schedulers** for research like Slurm, PBS, HTCondor, GridEngine. Use Google Kubernetes Engine (GKE) for f**ully-managed containerization**.

- Provision a "**HPC-in-a-box**" environment with CloudyCluster for a user-friendly implementation that provides the power of Google Cloud with simplicity.

Clemson University	**Rubin Observatory**	**Broad Institute**
Dynamically bursts 2.1 million Pre-emptible vCPUs to process 210TB of video within 8 hours for climate research	First ever cloud-based data facility processing 500 petabytes of data to unlock greater insights of the universe	Replaced its in-house genome sequence analysis with GCP to process data +400% faster

Life Science Research
Drive breakthroughs and attract top research talent

- Use Cloud Healthcare APIs to accelerate your healthcare solution development with **fully managed, enterprise-scale, HL7® FHIR®, HL7® v2, and DICOM® APIs**.

- Leverage the Healthcare Natural Language API to **derive insights from medical text** and the Life Sciences API to **process bioinformatics data** with low total cost.

- Protect your healthcare data while meeting industry-specific security compliance requirements.

- **Ingest, store, and aggregate all types of healthcare data in its original format**. Leverage Cloud Healthcare API's NLP to **de-identify your data** for analytics and AI applications.

- Build your next-generation **Clinical Data Warehouse (CDW)** with us to accelerate processing times and save costs.

- Use **Real-World Insights (RWI)** to accelerate drug development and clinical trials. RWI extends the FDA's existing open source platform with enhanced security and interoperability with Google Cloud.

- Google Cloud is part of the **NIH STRIDES, NSF CloundBank** and **NSF MSI programs**

> *The combination of genotype information and health data enables genetic discoveries that improve our understanding of disease mechanisms, creating medical breakthroughs.*
>
> **Mari Kaunisto**
> Communication Director & Geneticist
>
> **FIMM**

Colorado University	**Emory University**	**UNC Health**
Migrated CDW to GCP to process +6 million records daily 93% faster than their previous Oracle DW at a fraction of cost	Process ICU healthcare data in real-time to predict the onset of sepsis up to 12 hours prior to clinical recognition	Used RWI to go from protocol design to study launch in less than 2 months

Security and Professional Services

- **Automate security and data governance** to ensure guard rails and monitoring mapped to compliance requirements (HIPAA, FedRAMP, NIST 800-53, NIST CSF, GDPR, PCI DSS). Security alerts, audit events and logs are integrated with your existing SIEMs (Splunk, Sumo Logic, Elastic Search, etc).

- **Automate research sandbox provisioning** to provide maximum control and governance granularity for data ingestion, processing, and sharing with internal and external collaborators.

- Enrich your logs with VirusTotal and **investigate Petabytes of data for real-time threats and compliance risks** in a easy and **cost-effective** manner via **Chronicle**.

Learn more
cloud.google.com/solutions/education