



Google Warsaw

EMEA Cloud Hub

Google opened an office in Warsaw in 2005, with three Googlers working in a single room in the heart of the city. Today, Google Warsaw is home to a diverse group of more than 650 Googlers, with our engineers working on some of Google's most forward-thinking Cloud products used by our customers serving users around the world, every day. The city of Warsaw is a vibrant mix of history, culture and architecture. With its rapidly growing tech market and affordable cost of living, it is one of the most exciting cities where global technologies are being developed.



650+
Full time employees

450+
Engineers

25+
Nationalities

As one of Google's Cloud's engineering offices in EMEA, Google Warsaw is part of a big shift in the approach to cloud computing, happening globally today. The mission is to help our internal and external users run their software and services easily, effortlessly and affordably. We do this by providing intelligent, data-driven, fully automated and scalable infrastructure.

Teams and projects

Google Compute Engine (GCE) offers infrastructure for Service Cloud. GCE offers customers Virtual Machines billed by Core-minute. GCE Managed Infrastructure is a layer on top of core GCE resources. The teams are tasked with building **highly scalable and reliable global systems & inventing novel algorithms** for automated scaling: anticipating memory and CPU requirements.

Coding language: **Java**



Managed Infrastructure creates **Zero-ops infrastructure management** automations for the compute products of Google Cloud (scaling, updating, developing and keeping instances alive and in a coherent way with minimum ops involvement and maximum performance).

This encompasses teams working on Managed Instance Groups, Autohealer, Autoscaler, Updater, Rightsizing Recommendations and Automations. They provide a growing suite of tools for external customers and internal platforms.

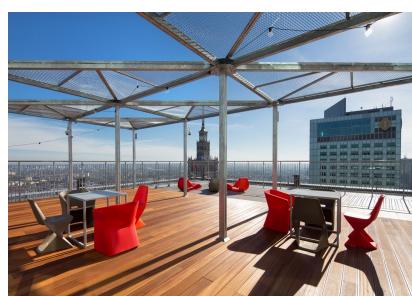
Coding languages: **Java, Go, C++**



Cloud Console is a powerful **web admin UI** which helps **millions** of active users to first evaluate GCP and later on manage and get insights into everything that powers their cloud applications.



Warsaw is a centre of excellence for Cloud Console development as we **build UI's for many of the key products**: GKE, Anthos, Serverless (e.g. Cloud Run, Functions, Workflows), GCE, Data Analytics & Networking.



Coding languages and frameworks: **TypeScript, Angular, Java**

Cloud Console Mobile is our mobile app for Google Cloud Platform, running on both iOS & Android. It provides **24/7, on-the-go access to key features** such as dashboards, resources, billing, operations, notifications and permissions. It enables quick key workflows with easy authentication, fast loading and **UX optimised for mobile tasks**.

Our Warsaw engineering team has full ownership of the product across both native apps and the backend infrastructure.

Coding languages and frameworks: **Objective-C, Swift, Kotlin, Java**



[**Google Kubernetes Engine**](#) (GKE) is a hosted Kubernetes offering on Google Cloud. Anthos is building on top of that delivering extra capabilities such as **hybrid and multi-cloud solutions**, service mesh and more.

The team in Warsaw is owning the following three areas:

- automatic scaling/sizing Kubernetes clusters and workloads running in the clusters,
- scalability and performance optimization of Kubernetes and GKE,
- Instrumentation of Kubernetes and GKE clusters.

The team in Warsaw is leading three Special Interest Groups in the **OSS Kubernetes community**: SIG Autoscaling, SIG Scalability and SIG Instrumentation.

Coding language: **Go**



[**Borg**](#) is **Google internal cloud**, i.e. Cluster Operating Systems for scheduling and managing all Google machines across the globe and all applications - from YouTube, via Gmail & Maps to Google Cloud.

Work done in Warsaw includes building the Borg on-machine agent for managing hardware, processes' lifecycle and isolation, tools for running and managing services on Google clusters, the system collecting and warehousing data about the **entire Google production fleet**; and analyzing this data using advanced **ML algorithms** to automate and optimizing the use of Compute resources, via automatic placement, scaling and others.

Coding languages: **C++, Go**



Control Plane Platform is a platform on top of which GCE (Google Compute Engine) and other products build their **API business logic**. It standardizes the building, operating and evolving of a service's control plane.

Coding languages: **Java, Go**



[**Cloud Networking**](#) team is developing **networking products** for Enterprise customers of GCP. The teams are focused on enhancing Customer Experience with market leading products such as **Network Intelligence Center** and programmable APIs. The teams also work on advanced operations infrastructure to develop highly reliable services.

Coding languages: **Java, TypeScript, Python, C++, Go**



[**Engineering Productivity**](#) is a data-driven engineering discipline focused on **optimizing the engineering process** so that Google can deliver amazing experiences to our users, faster.

Coding languages: **Java, C++, Python, JavaScript, Go**

Google Cloud is a leader in [**Data Analytics**](#), providing a comprehensive, serverless data analytics and machine-learning platform.

Our growing team in Warsaw is responsible for **several Google Cloud Data Analytics products**: Cloud Composer and Data Catalog, BigQuery, Dataform, Data Catalog Ingestion. Our mission is to enable customers to fully leverage the entire Data Analytics platform, orchestrate and **manage data processing end-to-end**, and gain visibility and control over their data, whether the data resides in Google Cloud, on premises, or in other clouds.

[**Cloud Composer**](#) is a fully managed workflow orchestration service, growing at a very fast pace. The product enables some largest and most successful organizations in the world to **orchestrate their data processing at massive scale**. Our goal is to deliver easy-to-use, fully managed, fast, and cost effective orchestration for a wide range of users and customers.

[**Data Catalog**](#) is a new core GCP service that enables customers to discover, understand, and **manage all their data assets** irrespective of whether they are in Google Cloud Platform, on premises, or in other clouds. Data Catalog powers a fast-growing list of advanced capabilities such as automatic data categorization, data governance, data lineage, and more.

[**BigQuery**](#) is a highly scalable **enterprise data warehouse**, one of the most attractive products within GCP and is often called the crown jewel of Google Cloud Platform (GCP). BigQuery is expanding into real-time query experience enriched with built-in BI modelling capabilities based on Looker modelling technologies.

[**The Dataform**](#) product is used by Data Analysts to develop **SQL-based transformations using our open-source ‘SQLX’ framework and a fully cloud-native IDE**. They then use the product to deploy and monitor the SQL workflows running on top of BigQuery.

[**Data Catalog Ingestion**](#) team develops flexible, scalable, and **robust APIs and pipelines for feeding metadata changes** from various GCP data sources into [**Data Catalog**](#). To be able to onboard new data sources efficiently and reliably in the future, we are also developing reusable integration toolsets.

Coding languages: **Java, Python, C++ & Go, TypeScript/JavaScript/Angular**





Unified Control Plane (UCP) is a platform that powers many Google Cloud Services. Google Cloud is rapidly expanding its product footprint, and the UCP platform has the potential to allow it to deliver products more efficiently.

UCP Team works on a project that involves numerous technical challenges and has an impact both on the **development of new Google Cloud Platform products** and on attracting a new wave of customers and partners to our platform. They also help solve technical problems spanning the areas of containers, orchestration, distributed systems, service modeling, API modeling, monitoring, deployment, and automation.

Coding languages: **Java, Go**



Colossus is Google's **exabyte scale distributed file system**, storing all the data for major Google properties such as Google Cloud Storage, Youtube, Gmail, and Indexing.

Colossus is the evolution of the **Google File System (GFS)**, enabling Google to grow to its current scale, by supporting major Google Infrastructure such as Bigtable and MapReduce.

The team is continuing to push the boundaries of scale, improving availability and reliability, easing our internal customer use cases, all while reducing cost.

As an engineer on the Colossus team, you will work on high performance, robust code, that is critical to the operation of Google. You will understand rigorous system design and code health are important for the long term system and team's well being. You will work with internal customers to enable new use cases and understand the tradeoffs in performance, reliability, and cost. While not carrying a pager, you will be interested in how the systems actually perform in production.

Coding language: **C++**

