

Broad Institute's Use of Google Cloud: Accelerating Biomedical Research for All

Products and Solutions

2nd Generation Intel® Xeon® Scalable Processors
Intel® Advanced Vector Extensions 512
Intel® Intelligent Storage Acceleration Library

The Broad Institute of MIT and Harvard (Broad Institute) is a world-renowned nonprofit academic organization that was founded to empower creative scientists to transform medicine with new genome-based knowledge. The Broad Institute uses an array of cutting-edge technologies, including genome sequencing and analysis, which produce very large datasets. In collaboration with Google Cloud and Intel, the Broad Institute optimized their genomics workloads for fast, cost-effective execution on Google Cloud N1 and N2 instances. By modularizing their pipeline workflows, right-sizing cloud instances based on the needs of the workload, and optimizing for Intel® Xeon® Scalable processors, they reduced processing costs per genome significantly. Running on Google Cloud allows the Broad Institute to scale easily and empower the research community with new capabilities for the benefit of research into solutions to human disease.

Industry Research Organization Size 501–1,000

Country United States Partners Google Cloud Case Study