



Quantori Overview

Quantori

is a Full-Service Scientific Informatics, Data Sciences, and Digital Solutions Provider for the Life Science and Healthcare Industries.

Using our domain knowledge and technical expertise, we develop cutting-edge data science, digital engineering, and technology platforms for biotech, pharmaceutical, and healthcare companies that accelerate drug discovery and improve patient outcomes.

Our innovative approach harnesses the power of data engineering and informatics, machine learning, emerging technologies, cloud, and HPC expertise to advance research and development and ultimately bridge the gap between meaningful data and patient success.

Expertise, Experience, and Scale



Blue-Ribbon Client List

Leading Biopharma, Life Science, and Healthcare companies and institutions



1500+ Software Projects

Life Science platforms, applications, and tools, covering the continuum from discovery to Real-World Evidence



Proven Track Record

Successfully undertaking digital transformation projects, delivering innovative digital solutions, and creating Data Science platforms



700+ Experts

Software Engineers, Data Scientists, Domain Specialists (Bioinformaticians, Cheminformaticians, Medical Doctors, Researchers), Cloud Engineers, Digital Health Experts



7 Global Locations

Key offices and development centers in Armenia, Georgia, Kazakhstan, Portugal, The Netherlands, UK, and US



20+ Years

Extensive experience in developing software solutions for research-driven Life Science and Healthcare sectors

Board and Co-founders

Richard Golob

Chief Executive Officer

Dr. Yuriy Gankin

Chief Scientific and Strategy Officer

Vitaly Aronov

Chief Technology Officer

Senior Executives

Dmitri Baranov

Chief Financial Officer

Shawna Koch Mishael RN, MBA

VP, Healthcare Business

Sean Murphy

Senior Vice President, Client Services

Arun Nayar

Global Head, R&D Informatics

Solman Rahman

Executive Vice President, Europe

David Walker, MSc, MBA

VP, Life Sciences Business

Testimonials



“ We are very pleased with the results using Quantori’s solution. Being able to process multiple CryoEM datasets in parallel makes handling our constant influx of data possible. We are no longer limited computationally, but as it should be in biochemistry.

Whenever we run into an issue or have additional features that we would like to be added, the people at Quantori have been great, and I often get a response from Quantori, if not a solution, in about a day. Overall I recommend Quantori for their knowledgeable, professional staff capable of providing solutions cost-effectively and efficiently.

Bharat Reddy

Senior Scientist
Rectify Pharmaceuticals

“ Quantori was able to supplement our software delivery teams at very short notice with excellent talent that quickly generated results in the most challenging areas. I am very pleased with their performance and efficiency.

Hakan Elmali PhD

VP, R&D
PerkinElmer

“ Quantori produced an industry-leading deliverable for us on a very short timeline. Their efficiency and commitment to quality are unmatched in my experience.

Jeffrey Carter

Co-Founder and COO
Arxspan, Bruker Corp

“ Working with Quantori’s software engineering team gives us access to expertise, methods and accelerators to push the boundaries of biopharmaceutical possibilities and create insights that move our entire organization forward.

Leo Barella

Vice President, Chief Technology Officer
Takeda

Service Portfolio



Research and Development

- Integrated informatics, research tool sets
- Data integration and management
- Data warehouses and platforms
- High Performance & Scientific computing
- Scientific data curation
- Translational research
- Cloud-based data analysis pipelines

Analytics, Big Data & Data Sciences

- Algorithmic & statistical and stochastic modeling
- Clinical & genomics data analysis
- BI and reporting
- Predictive & population analytics
- Data transformation consulting
- Imaging and visualizations
- Precision medicine

Enterprise IT & Collaboration

- Enterprise platforms for internal & external collaboration
- RPA, workflow automation
- Systems integration, enterprise search
- CMS, CRM, document management, CRO communication
- Cloud deployment and support, DevOps
- Optimization of IT application portfolios

Digital Product

- Service design and strategic consulting, BA and product development leadership
- Omni-channel solutions for telemedicine, integrated health, care & clinical trial management, patient engagement
- Digital product development and e-commerce platforms

Lab and Medical Devices

- Digital lab conceptualization and design for next-gen research
- Software for medical devices compliant with industry regulations
- Wearables, sensor data collection, standardization
- Remote monitoring / remote control
- Device design & integration, Connected hospital

New Technologies

- ML / AI, AR/VR, Blockchain
- Mobile, Connectivity and IoT
- Bioinformatics tools optimization
- Algorithm development
- Open-source accelerators
- Innovation as a service

Key Expertise Areas



With over two decades serving the Pharmaceutical & Life sciences industry, Quantori services support end-to-end drug discovery, development, and commercialization.



Laboratory Informatics

Alignment within laboratory informatics brings our clients closer to their patients through improved diagnosis, treatment methods, and drug development.



Data Science & Engineering

We create the architecture, layout, workflows, and initial data systems to make sure the right data stays current and new data can easily be added or removed.



AI & Machine Learning

We design and deliver innovative AI and ML solutions to create deep learning models that recognize and predict data patterns with more accuracy and precision.



Real World Informatics

We have strong expertise in Managing Disparate Data Sources for Clinical Trials & Real World Data Sources.



Scientific Informatics

Our customized scientific informatics solutions allow our clients to better understand their data through relevant processes and workflows.



Cloud Operations

We help clients migrate their data, optimize cloud presence, and provide support and maintenance for their systems



Registry Science

We are empowering precision medicine and complex clinical decision-making by constructing and executing high-quality registry programs for Life Science and Medical Research Foundations.



High Performance Computing

Our HPC capabilities and accelerators allow biotech innovators to kick-start research computations in one click.



Selected Case Studies

Domain Centric UX/UI to Uncover Genomic Analysis Software Full Potential



Our client, [Forome Association](#), wanted to uncover the full potential of open-source genomic analysis software and reached out to Quantori for proven expertise and excellent domain knowledge.

[Learn more](#)

Solution

- Mapped out a 3-stream plan to complete the DevOps objectives, unlock the UX/UI potential, and create an efficient testing strategy.
- Implemented build-and-deploy scripts and created a script library to employ in an easy-to-use manner.
- For testing, implemented the BDD approach, Postman for API tests, and TypeScript for automation.



Harness Tens of Thousands of Longitudinal EHRs of Patients Across More than 10 Diseases

Our client wanted to determine if there are genetically hidden subpopulations of patients within AID diseases (or any other diseases like Parkinson's disease) given their longitudinal EHR data and to verify them using the genomic data.

[Learn more](#)

Solution

- Implemented high-performance ETL pipelines to group and post-verify patients for genomically distinguished sub-populations.
- Built up leading-edge tools for extracting, polishing, and consolidating data in different formats out of various RWD sources.
- Provided scientific and pictorial interpretation to the obtained subpopulations.



AI/ML Application to Analyze Millions of Nuclei



Our client engaged Quantori to undertake a complex bio-computational analysis of high-content images. This initiative required deep bioinformatics input.

[Learn more](#)

Solution

- Delivered a highly accurate image analysis model using AWS service.
- Prepared the molecular data for supervised machine learning.
- Implemented a pipeline with AWS SageMaker using Spot Instances.
- Introduced an effective labeling solution and trained biomedical specialists for the best accuracy.



Develop High Performance Computing Platform for Molecular Docking



A life sciences company was operating a platform built on ARM architecture with EC2 Spot Instances to reduce the compute costs and improve the application output. Quantori's challenge was to rapidly develop HPC compute environments using AWS ParallelCluster.

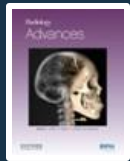
[Learn more](#)

Solution

- Implemented a breakthrough HPC infrastructure accelerator for macromolecular docking of tertiary and quaternary proteins.
- Offered QHPC with DASK, ARM architecture, and new instances.
- Optimized AutoDock, Smina, and QVina.
- Introduced the UI for Python with C library.



Research Publications



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