

AI & HPC AS A SERVICE

Trusted partners to accelerate your science/AI/business



Our experts work with your scientists and business leaders to find the most cost-effective, end-to-end solution. From algorithm optimization to infrastructure hosting, all aspects are tailored to meet your specific challenges and ambitions. We support you to access secure resources at the scale your business requires to make the next breakthrough.

Customized
to fit your specific needs



We leverage our expertise to provide the best hardware and software ecosystem, delivering performance and scalability. Our experts have decades of experience designing, hosting and managing computing at scale, and will work with you to define requirements and metrics to maximize return on investment. You focus on your business and we will focus on your HPC/AI/cloud.

Optimized
for your KPI metrics



We combine technical expertise with industry-leading technology and methodologies to provide an end-to-end HPC solution for your business success. From the choice of hardware, I/O and network to algorithm and workflow optimizations, we use a data-driven approach to provide a user-friendly, fully scalable production cloud environment.

Sustainable
to support your ESG targets



We use innovations essential in a fast-paced HPC and AI world, such as higher computing densities, use of energy-efficient CPUs and GPUs and oil immersion cooling. We continually enhance our centers, implementing new technologies to maximize efficiency and support your environmental and sustainability targets.



THE CGG APPROACH

We design your cloud to fit your applications, your workflow and your level of expertise.

We do the heavy lifting

Comprehensive solutions from start to finish... CGG will take care of everything

We co-design with you the cloud environment you need

Our HPC and AI experts work as an extension to your team

We optimize to meet your defined KPIs

An environment focused on maximizing your productivity and ROI

We define a commercial model based on your business metrics

Tailored pricing aligned with your specific needs and goals

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70 YEARS OF PIONEERING COMPUTING SOLUTIONS AT SCALE

Massive data loads	Our HPC hosts over 1 million jobs per day
Industrial scale and commercial operations	Over 350 petaflops (SP) and managing over 250 petabytes
Trend-setting technologies	Including higher computing densities, use of energy-efficient CPUs and GPUs, and oil immersion cooling
Strong partner network	Long-standing relationships with leading server manufacturers – our experts custom-configure to meet the most demanding workloads
HPC Lab	Each system is fully tested and benchmarked before deployment to meet the highest performance standards

ENVIRONMENTALLY CONSCIOUS OPERATIONS

Powered by renewables	Facilities powered with 100% renewable energy to support your sustainability targets
Designed for oil immersion	Innovative cooling to eliminate constraints of traditional methods and maximize HPC potential
Power conservation for streamlined performance	Strategies to ensure efficient energy use for better performance, reduced costs and increased sustainability

Accelerating drug discovery

Biosimulytics needed to scale its specialized drug design applications to meet the demands of its clients while improving ROI.

CGG has worked with Biosimulytics to optimize its algorithms and provide an environment that can now run applications at least 5 times faster than its previous public cloud solution, enabling it to dramatically improve its return on investment and expand its business.

Lowering operational cost

A client sought more energy-efficient operations and more cost-effective HPC.

CGG's experts came up with a solution. A 15% reduction in GPU frequency has only a minimum impact on performance (-3%) whereas power consumption is reduced by 30%, leading to a significant overall reduction in the cost per job.

Advancing imaging science

Subsurface imaging over the decades has placed ever increasing demands on HPC, such as ever increasing data volumes, of higher density and resolution, with higher-fidelity models and continual upgrade cycles.

As a result, CGG has become the largest HPC user in the energy industry. It meets the ever changing demands of its own operations, as well as hosting external client data, with secure access for clients to review progress and collaborate.

cgg.com/hpc

SEE THINGS DIFFERENTLY



EUROPEAN TECHNOLOGY
PLATFORM FOR HIGH
PERFORMANCE COMPUTING

