

# AI & HPC AS A SERVICE

Accelerate your time to science



Our experts work with your scientists and business leaders to provide a specific, scalable, cost-effective cloud environment. Whether it's processing and analyzing genomics data for the early diagnosis of cancer, biological and chemical process simulation that'll shorten the pathway to market of new drugs, or implementing computer vision techniques, CGG makes technology simple and affordable, enabling your life science organization to make its next breakthroughs.

## HPC expertise and resources for science



Our professional services, delivered by computer scientists, engineers, data scientists and industry experts, require no upfront capex. Our team has decades of experience designing, hosting and managing computing at scale, and will work with you to help you achieve operational excellence and maximize your benefits. We remove technical complexities so that you can focus on your business.

## Optimized for productivity



We work with you to optimize HPC for maximum results. Our unique combination of technology and industry supports you along your journey hosting HPC-customized solutions that guarantee 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 friendly, scalable production cloud environment.

## Sustainable hosting for a better future



We use innovations essential in a fast-paced HPC and AI world, like higher computing densities, 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 host your cloud to fit your applications, your workflow and your level of expertise.

[cgg.com/hpc](http://cgg.com/hpc)

### **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 host for 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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## SOLUTIONS AT SCALE

Massive data loads	Our HPC hosts over 1 million jobs per day
Industrial scale and commercial operations	Over 500 petaflops (SP) and managing over 250 petabytes
Technologies that set a trend	Higher computing densities, use of energy efficient CPUs and GPUs, and oil immersion cooling, to name a few
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
Power conservation for streamlined performance	Strategies to ensure efficient energy use for better performance, reduced costs and increased sustainability

### Customer

Biosimulytics focuses on developing a platform that enables biopharma companies to shorten the time to market of new drug compounds by simulating lead optimization, one of the most challenging steps of the drug development process. This process relies on tedious laboratory experiments to crystallize and further characterize candidate drug molecules. Biosimulytics patented platform computes the most stable crystal structure, making drug development faster, more cost-effective and with less risk.

### Challenge

Biosimulytics faced the compute challenge of taking the 2D structure of molecules and searching the 3D landscape for the lowest energy predictions. This endeavor requires millions of simulations that are not only time consuming, but also expensive. Biosimulytics' users were demanding results in no more than 2 weeks, and they needed to find a way to meet their needs.

### Solution

Selected as the exclusive Cloud partner, CGG leveraged its expertise in HPC Cloud and software optimization, working hand in hand with Biosimulytics to optimize their platform and accelerate their capabilities.

### Benefit

Thanks to this partnership, Biosimulytics is comfortably on track to achieve their goals in terms of speed, cost, utility, and usability.