# Fit for purpose HPC solutions for businesses and institutions from a global specialist
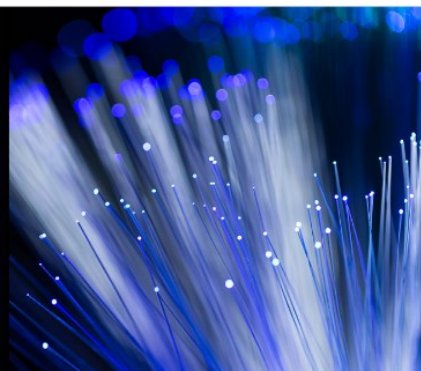
**CRUNCHYARD**

Most organisations struggle to find turnkey high performance computing solutions that work with their legacy systems, their unique workflows and their specific requirements. We provide technology agnostic solutions built around your specific requirements, enabling powerful, true HPC capabilities that work for you specifically.
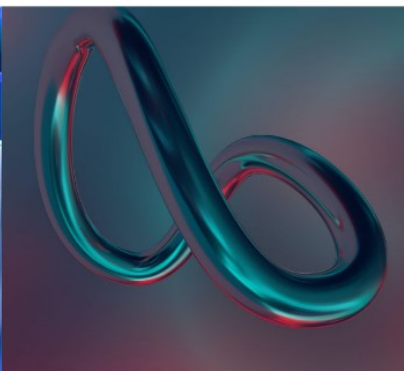
## Custom HPC Clusters

On site. Optimised to your workflow & environment

## Instant Cloud Clusters

Instant. Ad hoc or burst. Microsoft Azure. No HPC experience needed.

## Integrated Solutions

Cost optimised system providing best of both.

## Specialist Management & Support

Full support to your system admin team.

Neither hardware providers nor software providers are equipped to help organisations create fit-for-purpose HPC environments: high performance computing capabilities specifically designed to work with their legacy systems, environments and workflows.
For over fifteen years, businesses, academic institutions and organisations around the world have trusted CrunchYard to implement HPC solutions that work with - and for - their requirements.

# How It Works

We gain a thorough understanding of your needs, current systems and workflow.

We design and develop a fit for purpose cost-optimised solution.

We build your high quality, cost effective on premise, in the cloud, or hybrid system.

We provide full support and management - enabling your systems admin team to manage - easily.

## Some of our current clients and users include:

Worley, Corrdesa, ESSS, Alaris Antennas, Anglo American, ARSI, CSIR, De Beers, Gyeongsang National University, Honeywell, Howden, KressWorks Foundation, Missouri State University, MIT, Open University of Israel, Power Tech Transformers, Poynting, Resonance Microwave Systems, RF DSP Inc, SAAB Grintek, Shandong University, UC Berkeley, UC Santa Cruz and the Universities of Idaho, Vienna and Warsaw, among others.

## What our clients say:

"This was a game changer for us at Corrdesa, thanks Renier for such a great service and job!" CFD Engineer, Dr. Julio Mendez

"The results come out 10 times faster, which is significant..." Dr Andre Fourie, CEO Poynting Antennas

# Plug-And-Play CrunchYard Azure HPC Cluster

Instant access to your own cluster -
Key Features:

• Automatic Setup in minutes.

• Optional Gluster AND NFS file share.

• OpenPBS , Ganglia and Management scripts.

• Customizable.

## Industries & Sectors that make use of CrunchYard:

Financial and Climate modelling; Monte Carlo Simulations; Computer-aided engineering; Exploratory data analysis; Genomic sequencing; Machine learning and artificial intelligence; Seismic processing; Video, VFX and graphics rendering; Computational electromagnetics; Computational chemistry; DEM; Multiphysics; Fluid Dynamics; Exploration Geophysics and more.

## Typical Simulation Software:

ANSYS, STARCCM+, Matlab, OpenFOAM, CP2K, Julia, GROMACS, ADF, Blender, Seismic Unix, Octave, Python, R, FEKO, SAS, FVCOM, ElmerFEM, ESSS ROCKY, your own MPI Code and more.

CrunchYard was formed in 2007 by Dr. Renier Dreyer and Dr. Andre Fourie, with the aim of removing the pain of setting up and working with HPC environments for businesses, institutions and organisations.

With roots in the Aerospace industry, it soon became clear that there was demand for easy to use, cost effective and accessible HPC solutions in geosciences, combustion, chemistry and other scientific disciplines as well. Having perfected the art and science of creating bespoke HPC solutions for scientific clients, CrunchYard expanded our client base so that business clients could also harness the power of true high performance computing. Today, businesses as diverse as financial services, creative industries and terrain mapping benefit from CrunchYard tried and tested expertise.

For over 15 years, CrunchYard has been at the forefront of providing access to HPC for users around the world.

CrunchYard is based in the UK, with offices around the world.

# THE POWER TO SIMULATE. ANYTHING.

**CrunchYard**

www.crunchyard.com
info@crunchyard.com
+44 7774 685 721