

BIOS IT launch “Gene Genie” – an end-to-end ecosystem for Artificial Intelligence (AI) advancement in the healthcare industry – at SC18.

Submitted by: BIOS IT

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Dallas, November 14th 2018. BIOS IT launches the latest addition to its HPC portfolio – Gene Genie (<https://bios-it.co.uk/GPU/gene-genie.aspx>). Gene Genie is an end-to-end ecosystem for Artificial Intelligence (AI) advancement in the healthcare industry.

The solution combines leading GPU accelerator technology and intuitive scale-out storage in one platform for the analysis of Next Generation Sequencing (NGS) and medical image data. Gene Genie integrates and optimizes widely used genomics pipelines and Medical Image Computing (MIC) applications into one easy to use environment for secondary and tertiary analysis.

The global life science analytics market is expected to reach over \$24 Billion by 2021, up from \$13 Billion in 2016, at a CAGR of 13.3% during the forecast period. One of the major factors driving this market growth is the development of cost-effective and time-efficient solutions. Gene Genie is one such product, advancing researchers’ time to results while reducing the Total Cost of Discovery (TCD). This revolutionary solution is ideal for precision medicine, microbiology, clinical research and beyond, accelerating life science discoveries across the board.

Gene Genie delivers both time and cost-saving benefits all within a single solution – everything is managed under a single pane of glass. Researchers can effortlessly spin up machine learning and deep learning instances, preconfigured with their preferred frameworks such as TensorFlow, Caffe or Theano within a matter of minutes.

Accelerate: Offering up to 30x faster secondary analysis of genomics and MIC workflows. Gene Genie will reduce the time and cost of analysis by transforming monolithic CPU based pipelines to run on the highly parallel architecture of GPUs.

Store: Gene Genie meets your demanding data storage needs with a fast, scalable and highly redundant data repository and supports hundreds of instruments simultaneously.

Analyse: Create and run powerful and intelligent genomics and medical imaging algorithms using containerised deep learning and machine learning applications.

Discover: {{Gene Genie speeds up the complete process from data collection to discovery, while reducing your total cost}}, by tapping into the potential of a seamlessly integrated compute and storage platform.

Ian Mellet, General Manager at BIOS IT comments “BIOS IT is proud to bring Gene Genie to market and to play a part in empowering the science behind life-changing breakthroughs in clinical and scientific research. Our solution will play a huge part in the prevention, diagnosis and treatment of life-threatening illnesses with the end goal of improving our world for future generations.”

BIOS IT will showcase Gene Genie at this year's Supercomputing Conference (SC18), November 12th-November 15th on booth #638.

About BIOS IT

BIOS IT is a global IT consultancy and solution provider, focused on delivering the latest high-performance, power-efficient IT solutions for the life science industry. From liquid-cooled overclocked servers to fully bespoke HPC clusters tailored to meet your exact requirements, BIOS IT provides the right solution for you.

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