



NEWS RELEASE

# Penguin Computing™ to Deliver National Supercomputer to Irish Centre (ICHEC) for High-End Computing

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Penguin Computing advances international expansion with sale to ICHEC at the National University of Ireland (NUI) Galway and the Science Foundation Ireland FREMONT, CA – July 18, 2018 – **Penguin Computing**, a subsidiary of **SMART Global Holdings, Inc.** (NASDAQ: SGH) and leading provider of high-performance computing (HPC), artificial intelligence (AI), enterprise data center and cloud solutions, today announced that it will deliver the new national supercomputer to the Irish Centre for High-End Computing (ICHEC) at the National University of Ireland (NUI) Galway. Funded by the Science Foundation Ireland, the new system will replace the Fionn supercomputer installed in 2013. It will be part of Ireland’s National High Performance Computing Service and provide Irish researchers with HPC power to address some of the toughest challenges in science and society. The new ICHEC supercomputer will be accessible via the cloud to researchers across Ireland, thanks to the inclusion of Penguin Computing Scyld Cloud Manager® management software and an HPC cloud user interface layer based on Penguin Computing® On-Demand™ (POD)™, the Penguin Computing bare metal Cloud platform. This will allow Irish researchers to run their projects without needing to understand the intricacies of HPC performance and tuning, increasing the potential user population that can benefit from using traditional HPC techniques, as well as AI and machine learning. “Because we are investing in critical infrastructure to ensure Ireland can compete internationally in key domains such as precision medicine, earth observation and artificial intelligence, we needed to work with HPC experts like Penguin Computing,” said ICHEC Director Professor JC Desplat. “With 11 supercomputers in the Top500 list and a bare metal HPC Cloud service since 2009, we knew we could rely on Penguin Computing’s HPC expertise to address our needs in an innovative way,” said Professor Desplat. “Penguin Computing was cognizant of the careful planning and installation requirements for performing an in-place swap of our existing infrastructure with a system 5 times more powerful. Additionally, the use of Penguin Computing’s innovative cloud software stack will enable easy and secure access for researchers across Ireland.” “At Penguin Computing we push the boundaries



of performance and efficiency to help customers like ICHEC tackle their most challenging computing problems,” said Tom Coull, President & CEO of Penguin Computing. “In response to increased global demand for our AI, HPC, and data center solutions, Penguin Computing has expanded its presence in Europe over the last 12 months to better serve customers. We are honored that ICHEC put their trust in Penguin Computing to provide Ireland with its national supercomputer and we look forward to meeting the needs of their researchers across Ireland.” As part of its European expansion, Penguin Computing has opened a corporate office in London with UK-based Rod McAllister as EMEA Sales Director. To ensure fast, thorough support to European customers, Penguin Computing is expanding around-the-clock technical hardware support and managed services as well as replacement parts depots in the UK, Netherlands and Germany. The ICHEC supercomputer is comprised of 336 high performance servers with 13,440 Intel-based central processing unit (CPU) cores and 64 terabytes of general purpose memory. For specialized computing, the new system includes 6 large memory nodes with 1.5 terabytes of memory per server, plus 32 accelerator nodes divided between Intel Xeon Phi and NVIDIA Tesla V100 graphics processing units (GPUs). These are connected by Intel 100Gbit/s Omnipath technology and DataDirect Networks provide 1 petabyte of high performance storage over a parallel file system.

About Penguin Computing, a SMART Global Holdings Company

Penguin Computing, a U.S.-based global provider of high-performance computing (HPC), artificial intelligence (AI) and machine learning, and data center solutions, has been serving industry for over 20 years with more than 2,500 customers in 40 countries across eight major vertical markets. Penguin offers a comprehensive portfolio of hardware and software including solutions based on the Open Compute Project (OCP), as well as extensive services including financing and top-rated customer support. Penguin Computing products include Linux-based servers, software, integrated turn-key clusters, enterprise-grade storage, and bare metal HPC, all available in hardware or cloud-based solutions via Penguin Computing® On-Demand™ (POD). Penguin Computing is a subsidiary of **SMART Global Holdings, Inc.**, and the cornerstone of SMART’s newest business unit, Specialty Compute & Storage Solutions (SCSS). Visit [www.penguincomputing.com](http://www.penguincomputing.com) to learn more about the company.

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