FOR IMMEDIATE RELEASE

**GSE SYSTEMS UNVEILS NEW CLOUD-BASED LEARNING SOLUTION
FOR ENGINEERING AND OPERATIONS WORKFORCE**

Sykesville, MD –December 5, 2017 - GSE Systems, Inc. (GSE or the Company) (NYSE American: GVP), the world leader in real-time high-fidelity simulation systems and training/consulting solutions to the power and process industries, today announced a new cloud-based training platform, EnVision™ Learning On-Demand, that significantly extends the capabilities of its industry leading EnVision™ tutorials and simulations.

GSE has released this next-generation learning product in response to the industry's need for a structured learning program with broader and easier access to learning materials and the capability for either self-paced or instructor-led learning. EnVision Learning On-Demand greatly enhances customers' workforce development programs. Clients can now bring engaging learning environments remotely to their professionals in operations and engineering so long as they have a web browser and internet connectivity.

The new cloud delivery platform increases client access to learning while reducing the cost of delivering content-rich training to anyone in the organization. EnVision Learning On-Demand offers a simple way to deliver courses with specific learning objectives and competencies, in a SaaS model, and in the cloud.

Benefits include:

- o Enhanced Accessibility -
  Enables access via web browser from any location, eliminating the need for local installation

- o Improved Integration -
  Facilitates integration with existing customer Learning Management Systems and provides a mechanism for blending learning content and skill-building exercises focused on competency outcomes

- o Enriched Content -
  Provides extensive, structured simulation exercises to reinforce learning and to assess comprehension and competency

The new cloud delivery platform has been well received by current EnVision users.

GSE recently launched an Early Adopter Program (EAP) for EnVision Learning On-Demand to gather feedback from key users of the product. Training program managers for an existing client, a large international oil and gas company, see the new system's structured learning approach fitting well into

their internal training program, primarily addressing fundamental training before classroom instruction. With EnVision Learning On-Demand, the client can better prepare trainees for intermediate and advanced unit specific training.

"We recognized our clients' desire to purchase their training as a cloud-based SaaS model," explained GSE's Chief Executive Officer, Kyle Loudermilk. "This new platform will help our customers achieve their training objectives in a more focused and cost-effective manner while increasing access and unburdening their IT departments."

The cloud-based SaaS platform reduces the need for IT support, installing, tracking and controlling multiple versions of software.

Dr. Bahram Meyssami, GSE's Chief Technology Officer said, "The learning platform offered through a SaaS model in the cloud enables our customers to modernize their training programs, taking advantage of the extensive GSE EnVision™ library of tutorials, simulation models, and structured simulation exercises delivered through a web browser. The EnVision™ Learning On-Demand platform improves trainee access to a broad range of learning content, while offering a well-designed learning plan focused on successful outcomes."

More information on the new EnVision cloud-based delivery platform can be found on the Company's website at: www.gses.com/envision-on-demand.

About EnVision™ E-Learning & Universal Simulations

For more than 20 years GSE's EnVision™ products have provided content-rich tutorials and simulation modules that apply to the entire range of employees, from new hire to the most experienced operators. EnVision E-Learning tutorials are an important part of the blended learning approach embodied in the EnVision training model. The power behind EnVision is engaging multi-media functionality that makes learning interesting. Self-paced tutorials teach fundamentals of various unit operations and process controls so that trainees can acquire the basic knowledge they need to progress to more process-specific instruction. Learning management software enables instructors to control the process, register trainees, review test scores, and monitor their overall performance.

EnVision™ Universal Simulators provide 80% of the required operational knowledge trainees need at about 20% of the cost of a custom operations training solution (OTS). This efficiency results from the fact that the system configurations of EnVision universal simulators are typical unit operations – not an exact plant. Customers gain the same high-fidelity response as a custom OTS without the high cost of providing custom simulation solutions for each and every one of their units.

Combining universal simulator applications with e-learning tutorials enables students to immediately practice and apply what they have learned for better comprehension and knowledge retention.

ABOUT GSE SYSTEMS, INC.

GSE Systems, Inc. is a world leader in real-time high-fidelity simulation, providing a wide range of simulation, training and engineering solutions to the power and process industries. Its comprehensive and modular solutions help customers achieve performance excellence in design, training and operations. GSE's products and services are tailored to meet specific client requirements such as scope, budget and

timeline. The Company has over four decades of experience, more than 1,100 installations, and hundreds of customers in over 50 countries spanning the globe. GSE Systems is headquartered in Sykesville (Baltimore), Maryland, with offices in Navarre, Florida; Huntsville, Alabama; Chennai, India; Nyköping, Sweden; Stockton-on-Tees, UK; and Beijing, China. Information about GSE Systems is available at www.gses.com.

FORWARD LOOKING STATEMENTS

We make statements in this press release that are considered forward-looking statements within the meaning of Section 27A of the Securities Act of 1933, as amended, and Section 21E of the Securities Exchange Act of 1934. These statements reflect our current expectations concerning future events and results.   We use words such as "expect," "intend," "believe," "may," "will," "should," "could," "anticipates," and similar expressions to identify forward-looking statements, but their absence does not mean a statement is not forward-looking.   These statements are not guarantees of our future performance and are subject to risks, uncertainties, and other important factors that could cause our actual performance or achievements to be materially different from those we project. For a full discussion of these risks, uncertainties, and factors, we encourage you to read our documents on file with the Securities and Exchange Commission, including those set forth in our periodic reports under the forward-looking statements and risk factors sections. We do not intend to update or revise any forward-looking statements, whether as a result of new information, future events, or otherwise.

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