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SB Microsystems Becomes COMSOL Certified Consultant

Consultancy, specializing in the design, simulation, prototyping, and testing of micro-fluidic devices and micro electro-mechanical system fabrication, certified as COMSOL Multiphysics experts.

BURLINGTON, MA (May 2, 2011) – COMSOL, Inc., developer of the industry-leading COMSOL Multiphysics modeling and simulation environment for scientists and engineers, announces that SB Microsystems has achieved COMSOL Certified Consultant status. SB Microsystems provides its clients engineering expertise in MEMS (micro electro-mechanical systems) and micro-fluidic device design, simulation, prototyping, testing, and fabrication. It offers particular expertise in medical and scientific sensors and instrumentation in which micro-scale miniaturization and low power consumption are critical criteria for its clients' success.

"We're delighted to announce the certification of SB Microsystems as a COMSOL Consultant," says Bernt Nilsson, Senior VP of Marketing, COMSOL, Inc. "SB Microsystems enables us to better serve our users developing micro-fluidic devices as well as those researching and developing new products leveraging MEMS-based technologies in such emerging fields as implantable biological sensors, miniature analytical instruments, and sensors for point-of-care medical testing."

Headquartered in Columbia, MD, SB Microsystems provides research, development, and consulting services for clients both public and private worldwide. The company works with clients at any step within the MEMS and micro-fluidic device development and fabrication lifecycle. Additional services rendered include process design as well as detailed design ranging from final mask-level layout, circuit design, and CAD drawings of traditionally machined parts. SB Microsystems also maintains in-house testing facilities that can meet requirements ranging from simple acceptance testing through to complete bench-top and environmental characterization.

"Many of our projects begin with theoretical proof-of-concept and continue right on through the formalization of agreements with semiconductor foundries and vendors," says Brian Jamieson, President of SB Microsystems.

A key to SB Microsystems' attention to good engineering design is its extensive, hands-on experience with such state-of-the-art techniques and tools as the COMSOL MEMS Module, according to Jamieson. The module, which solves problems that couple structural mechanics, microfluidics, and electromagnetics, extends the core capabilities of the COMSOL Multiphysics modeling and simulation environment for the unique engineering problems encountered in the design and modeling of microscale electro-mechanical systems.

Its use of the COMSOL MEMS Module enables SB Microsystems to address almost all simulations in the microscale domain. "As a COMSOL Certified Consultant," says Jamieson, "we are able to offer manufacturers and developers of highly miniaturized sensors and instruments unparalleled, certified expertise in the modeling and simulation of the coupled mechanical, thermal, and electrical phenomena inherent in MEMS and micro-fluidic devices."

The worldwide group of experts that are COMSOL Certified Consultants are innovative problem solvers who use their extensive experience with COMSOL Multiphysics and its discipline-specific products to deliver turnkey solutions for a wide range of modeling projects. COMSOL Certified Consultants produce ready-to-run models and reports as well as in-depth analyses of simulation results. The collective expertise of the COMSOL Certified Consultant group covers a breadth of applications and has resulted in the commercialization of many patented products. For further information about COMSOL Certified Consultants, visit

<http://www.comsol.com/company/consultants>

About COMSOL

COMSOL was founded in 1986. The company's flagship product is COMSOL Multiphysics, a software environment for the modeling and simulation of any physics-based system. A particular strength of COMSOL Multiphysics is its ability to account for multiple physics phenomena simultaneously. Optional modules add discipline-specific tools for acoustics, batteries and fuel cells, chemical engineering, electrodeposition, electromagnetics, fluid dynamics, geomechanics, heat transfer, MEMS, plasma, structural analysis, and subsurface flow. The company's U.S. offices are located in Burlington, MA, Los Angeles, CA, and Palo Alto, CA. International operations have grown to include offices in the BeNeLux countries, Denmark, Finland, France, Germany, India, Italy, Norway, Sweden, Switzerland, and the United Kingdom. Additional information about the company is available at www.comsol.com.

About SB Microsystems

SB Microsystems is located in Columbia, Maryland. SB Microsystems helps its clients develop highly miniaturized medical and scientific sensors and systems using modern micro-fabrication technologies such as MEMS (micro electro-mechanical systems). Problem solvers dedicated to the basic principles of good engineering design, SB Microsystems' expertise lies in the extensive hands-on experience with current state-of-the-art techniques and tools for the design, fabrication, and test lifecycle of miniaturized device development. To contact SB Microsystems for further information, visit the company on the web at www.sbmicrosystems.us.

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