

News

Release

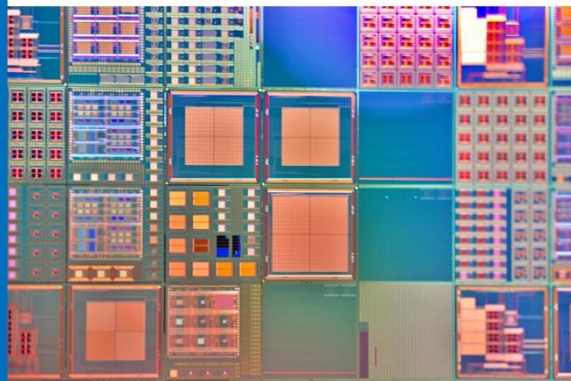
***Japanese Start-up, providing 10x lower power of IoT, NanoBridge Semiconductor, Inc. secures series A2 financing for expanding business***

**Tokyo, July 21, 2022** - NanoBridge Semiconductor, Inc. (NBS), Up-coming Japanese start-up, which designs and manufactures rad-hard and low-power advanced circuits and conducts IP-licensing sales using NanoBridge® (\*1), a resistance-change switching technology for semiconductors, today announced that it has issued series A2 preferred stock to Real Tech Holdings Co., Ltd. (\*2) and SHIKIGAKU. Co., Ltd. (\*3) to raise approximately 130 million yen.

NEC spin-off venture developing  
**90% more energy efficient**  
rad-hard FPGA-Chip

**NanoBridge  
Semiconductor, Inc.**

raises  
**130 million JPY** in Series A2 round



NBS is a venture company established by NEC researchers in September 2019. NanoBridge is a technology to control the creation or elimination of nanometer sized metal bridges in a solid electrolyte through the application of voltage, thereby realizing on and off-switch status. It is attracting attention as an ideal technology for FPGA (\*4) and memories that can repeatedly rewrite circuits. This is because

NanoBridge consumes less power, as it does not require power to maintain an on or off status, and is highly resistant to both radiation and extreme temperatures. NanoBridge technology will contribute to greener computation through its efficiency and will transform aerospace and IoT applications.

To expand NanoBridge's potential, NBS is hiring device and circuit design engineers/researchers.

(Contact us : [https://nanobridgesemi.com/?page\\_id=463](https://nanobridgesemi.com/?page_id=463))

"With years of hard work and enthusiasm, NBS worked on to perfect their breakthrough technology, but it's still a tremendous challenge to compete head-on in the FPGA market, which is dominated by few large US corporations." said Louis Christian Murayama, growth manager of Real Tech Holdings "They could have stayed cozily in a big company but they didn't and started this difficult venture. We believe in the team's passion and determination to bring NanoBridge to the world and are pleased to take the first step together as their innovation is turned into the first product: a high-performance rad-hard FPGA for satellites and other space applications. This is only the beginning. We are very excited to see the journey NBS will take to revolutionize the semiconductor industry."

"We hope that NBS's semiconductor technology, which is useful for improving the radiation resistance of electronic devices and reducing power consumption, will solve one of the important issues of electronic devices, which is the reduction of power consumption" said Kodai Ando, CEO, SHIKIGAKU. Co., Ltd. "We would like to support the further growth of NBS not only through investment but also through "Knowledge".

(\*1) Headquarter : Tsukuba, Ibaraki, CEO : Tadahiko Sugibayashi

(\*2) Headquarter : Sumida-ku, Tokyo, Representative : Yukihiro Maru, Akihiko Nagata

(\*3) Headquarter : Shinagawa-ku, Tokyo, CEO : Kodai Ando

(\*4) <https://jpn.nec.com/rd/special/202101/index.html>

### **About NanoBridge Semiconductor, Inc.**

NanoBridge Semiconductor, Inc. (NBS) was established in 2019 at Tsukuba to “Deliver ICT applications everywhere with Nanobridge technology”. NBS provides low-power and rad-hard programmable AIoT terminals and nonvolatile memory through NanoBridge. At NBS, customers come first. NBS strives to build deep relationships with customers and works together for opening up Carbon Neutral Society. For more information, visit NBS at <https://nanobridgesemi.com/>