

Turku, 30 June 2020

Towards More-than-Moore and beyond: Comptek Solutions shortlisted as “one to watch” in Spinoff prize by Nature Research and Merck.

Today, *Comptek Solutions* has been selected as one of the 44 world top science- based spinoff companies and one of the only two from the semiconductor industry, in the inaugural Spinoff Prize competition organized by the prestigious **Nature Research**, part of Springer Nature, and **Merck KGaA**, Darmstadt, Germany, a leading science and technology company.



“We are excited to be identified as a clear frontrunner in the semiconductor industry. This is an outstanding recognition for the technology developed by the Comptek team in the field of compound semiconductors, especially when so few companies outside of the medical or life sciences fields made it to the list. Being identified and selected by an important organization such as Nature research tells a lot about the relevance and the importance of the technology developed as well as the viability of our business plan. We believe our innovation will power the next wave of semiconductor devices ” says Jouko Lång, CTO and co-founder of Comptek Solutions, and main inventor of the technology. “We are grateful and thankful to Nature and Merck for having included our company among the ones to watch on this first edition of the Spinoff Prize”

The Spinoff Prize has been established by Nature Research in partnership with Merck KGaA, Darmstadt, Germany. The prize aims to provide visibility and support for academic entrepreneurs and their companies, worldwide. Richard Hughes, VP, Publishing, Nature Research Partnerships, said: “We are delighted to have received so many strong applications from university spinoffs worldwide. By featuring the most promising companies in Nature, we hope to raise their profiles. We encourage potential collaborators, partners or investors to get in touch with the founders to build relationships”

About Comptek Solutions:

Comptek Solutions commercializes a disruptive technology to solve one of the major problems that affect the manufacturing of compound semiconductor devices such as lasers or microLEDs: oxidation. With a profound expertise on material science, our team has developed a technology that mitigates the aggressive oxidation of the compound semiconductor materials by transforming the external layer of the material into novel crystalline oxide structures that are stable and present up to 98% smaller defect state densities. This technology is used to produce a perfect passivation protection for optoelectronic devices, such as passivation of laser facets, passivation of MESA side walls for microLED, VCSEL or photodetectors. This improved protection results in device efficiency improvements and also in a reduction of defective parts due to defects caused by the native oxidation of the materials during the manufacturing process.

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In addition to the optoelectronic applications, this technology has also a very big impact in transistor structures as it creates an almost defect-free interface between the channel and the gate insulators, enabling the production of e.g. normally-off enhancement mode HEMTs for the RF and power electronics applications.

Read the full story at Nature.com: <https://www.nature.com/collections/gbcgfcchea>

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