



**ASX ANNOUNCEMENT**  
(ASX: **NVX**)

25 July 2018

## **NOVONIX FORGES STRATEGIC RELATIONSHIP WITH DALHOUSIE UNIVERSITY**



### **HIGHLIGHTS**

- **NOVONIX to sponsor the Professor Mark Obrovac Research Group at Dalhousie University via a two-year agreement with an option to extend for five years**
- **NOVONIX will have first rights to IP developed from this arrangement**
- **Professor Obrovac is a leading battery materials innovator having authored fifteen issued patents**
- **Dalhousie University is a world leader in battery innovation and has researchers working with such groups as TESLA and 3M Corporation**

ASX-listed **NOVONIX Limited (ASX: NVX)** (“NOVONIX” or the “Company”) is pleased to announce that it has agreed to sponsor the Professor Mark Obrovac Battery Research Group at Dalhousie University.

Dalhousie University is an international leader in battery materials research, and NOVONIX itself was spun out of Professor Jeff Dahn’s lab at Dalhousie in 2013. At that time, Professor Dahn and his team, including NOVONIX COO Dr Chris Burns and CTO Dr David Stevens, worked together to develop HPC technology to accelerate battery research cycle time to weeks from years. This HPC technology is now NOVONIX’s flagship product being embraced worldwide by most major battery makers, auto-makers, electronics companies and cordless equipment manufactures.

NOVONIX Limited Chief Operating Officer, Dr Chris Burns said that the new research agreement with Professor Obrovac was an excellent investment opportunity NOVONIX aimed at staying in the forefront of next generation battery technology.

He said that the agreement deepened the long-term relationship and synergies between Dalhousie University and NOVONIX.

# NOVONIX

“This new arrangement with Professor Obrovac and his team at Dalhousie will help NOVONIX stay at the forefront of battery technology and has the potential to generate significant commercially valuable IP in next generation battery materials,” Dr Burns said.

The research will be focused on developing advanced next-generation battery materials and will leverage Professor Obrovac’s significant experience in silicon materials, anode and cathode materials, liquid and solid electrolytes and binder materials.

The Professor Obrovac Research Group comprises approximately 12 postdocs, PhD and MSc graduate students at any one time.

Professor Obrovac said that he was looking forward to working closely with NOVONIX.

“As a commercial partner, having NOVONIX based locally in Halifax creates a great environment for capitalising on our knowledge centre, developing commercially-relevant IP, and for creating opportunities for students to work with industry and develop career opportunities,” he said.



*Photo: Professor Mark Obrovac of Dalhousie University and Dr Chris Burns COO NOVONIX inspecting the electrode coating line at the NOVONIX battery cell pilot line facility*

“As announced Monday, NOVONIX is now uniquely positioned with our own battery cell pilot manufacturing line to be able to process materials, build commercial format pouch and cylindrical cells and test them on internally built High Precision Charger (HPC) systems in order to efficiently develop and optimize the performance of new materials for use in Lithium ion batteries. Innovative materials developed by Mark and his team can be trialed in standard commercial battery formats quickly by NOVONIX in Halifax.



“We are focused on developing commercially scalable materials that can improve the energy density, lifetime and power capabilities of Lithium ion batteries relative to today’s industrial standards and benchmarks.

“Our collective goal is to innovate new and improved materials that show improvements in battery performance and get these materials to our existing battery manufacturer and OEM clients for trials and ultimately into their supply chain,” Dr Burns said.

### FOR FURTHER INFORMATION

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### ABOUT PROFESSOR MARK OBROVAC

Professor Mark Obrovac is a leading battery materials innovator having authored over 75 peer reviewed journal articles, fifteen issued patents with a further seven patents pending in the field of battery science covering anodes, cathode, electrolyte and binder materials.

Regularly called on to review funding applications and to provide advice for Canada’s NSERC and U.S. DOE battery programs for fuel cells for EV.

- DALHOUSIE UNIVERSITY (9/10 – Present) Canada  
Professor at Dalhousie University and Industrial Research Chair of NSERC/3M CORPORATION
- 3M CORPORATION (7/02 – 8/10) USA  
Project leader of Anode Materials Group with 3M Corporation  
Research group became one of the top research teams in the world that with several fundamental discoveries describing the electrochemistry of silicon.
- BLUESTAR BATTERY SYSTEMS (5/95 – 8/95) Canada  
Successfully developed electrolytes for primary carbon monofluoride batteries.
- BALLARD ADVANCED MATERIALS (09/93 - 12/93) Canada  
Developed methods to synthesize and characterize solid lithium ion electrolytes.
- MOLI ENERGY (9/90 - 08/92) Canada  
Worked on solid polymer electrolytes and cathode thermal stability for safety.

### ABOUT NOVONIX

**NOVONIX LIMITED** (ASX: NVX) is an integrated developer and supplier of high performance materials, equipment and services for the global lithium-ion battery industry with operations in the USA and Canada and sales in fourteen countries. NOVONIX is co-owner of the PUREgraphite anode material Joint Venture, headquartered in Chattanooga, Tennessee,



USA. The Company also owns a world-class, large and high-grade natural graphite deposit in Australia.

NOVONIX's mission is to enable and accelerate the adoption of batteries for a cleaner energy future