

Company description

Word count: 150 words

Nexeon Ltd. ('Nexeon') is a battery materials and licensing company developing silicon anodes for the next generation of lithium-ion battery.

Nexeon's unique silicon anode material unlocks the potential of silicon to deliver increased capacity without compromising lithium-ion battery cycle life, providing lighter batteries with more power and longer lifetime between charges.

The company is based on the research of Emeritus Professor Mino Green at the Department of Electrical Engineering at Imperial College London.

Nexeon has filed a sequence of patents including high-aspect ratio silicon materials and the use of such materials in lithium-ion batteries. It has developed a number of proprietary processes and equipment for producing the material and making electrodes.

Benefits of Nexeon's technology include increased cell capacity, lower cost to manufacture, minimal disruption to the existing manufacturing process and improved safety margins.

Nexeon operates a fully automated and instrumented pilot plant, demonstrating a clear understanding of costs and the path to full-scale manufacturing.