Xerotech to develop next-generation battery safety technology for European Space Agency

Wednesday 19 May, 2021

Xerotech, a leading manufacturer of advanced lithium-ion battery systems, announced today that it will qualify one of its core proprietary battery safety technologies for space applications in conjunction with the European Space Agency (ESA).

“This is a very exciting project with ESA under the Building Blocks General Support Technology Program (GSTP), that will enable Xerotech to stay at the forefront of battery pack design. Demonstrating that our proprietary PPR solution exceeds the extremely stringent requirements for space applications will provide tremendous technical validation of a core pillar of Xerotech’s battery safety concept which has already been proven in ground-based applications.” – said Barry Flannery, CEO and Founder of Xerotech.

Xerotech already utilizes its proprietary PPR technology in the Hibernium™ product line for Off-Highway Vehicles and Non-Road Mobile-Machinery, that was launched in Q4 2020.

“We have experienced an excellent market reception of our recently launched Hibernium™ platform, partially thanks to the market leading safety-first design. This project with ESA further strengthens our position as leaders in module and pack technology, not only for heavy duty vehicles, but for battery packs in general” – said Thomas Tomaszewski, VP of Business Development at Xerotech.

The technology, known as passive propagation resistant (PPR) design, is a critical safety requirement of future space missions including manned spaceflight. Xerotech’s PPR technology is capable of preventing single and multi-cell thermal runaway within a battery pack by utilizing an ultra-lightweight fire-retardant structural foam which is 90% lighter than competing PPR technologies. The technology can be applied to all current space battery designs and has the potential to enable previously impossible mission profiles and applications.

About Xerotech

Xerotech, founded in 2015 and headquartered in Ireland, is a leading manufacturer of advanced lithium-ion battery systems for use in industrial and commercial applications. The company’s 50,000 square-foot manufacturing facility is home to over 40 engineers and 50 MWh pilot manufacturing line. Currently raising $30M to expand its manufacturing footprint tenfold to 500 MWh and expand the team to 110 by the end of 2021.

Xerotech’s Hibernium™ platform is the market first battery system platform developed for low-volume high-diversity customers. Utilizing its patented safety and thermal management technology Xerotherm™, Xerotech enables electrification of “everything else” that uses internal combustion engine today.

About ESA

The European Space Agency is an intergovernmental organization of 22 member states dedicated to the exploration of space. Established in 1975 and headquartered in Paris, ESA has a worldwide staff of about 2,200 in 2018 and an annual budget of about €6.68 billion in 2020

ESA's space flight programme includes human spaceflight (mainly through participation in the International Space Station program); the launch and operation of uncrewed exploration missions to other planets and the Moon; Earth observation, science and telecommunication; designing launch vehicles; and maintaining a major spaceport, the Guiana Space Centre at Kourou, French Guiana. The main European launch vehicle Ariane 5 is operated through Arianespace with ESA sharing in the costs of launching and further developing this launch vehicle.

The agency is also working with NASA to manufacture the Orion Spacecraft service module that will fly on the Space Launch System.

Photo Credit: ESA

Media:



Related Sectors:

Business & Finance :: Construction & Property :: Manufacturing, Engineering & Energy :: Transport & Logistics ::

Related Keywords:

Battery :: Ev :: Tech :: Mining :: Electrification :: Xerotech :: Hibernium :: Construction :: Mining :: Offroad :: Technology ::

Scan Me:

Company Contact:

Xerotech

T. +353 91 394806
E. carol.fitzgerald@xerotech.com
W. https://www.xerotech.com/

Additional Contact(s):
+353 91 394806

View Online

Additional Assets:

Newsroom: Visit our Newsroom for all the latest stories:
https://www.xerotech.pressat.co.uk