EV AND BATTERY CHALLENGE APPLICATION GUIDE
The EV and Battery Challenge (EVBC) is a global startup innovation program focused on accelerating battery and EV technologies through strategic partnerships with LG Chem (LGC) and Hyundai and Kia Motors (HKMC).

The program is an unprecedented opportunity for early stage startups to

- Conduct paid proof of concept projects
- Validate and advance their technology
- Build strategic partnership leading to investment and commercialization

New Energy Nexus is the program manager and execution partner and facilitator of this program. We are thrilled you are interested in applying. The information in this manual is meant to help you navigate our application process. Should you have any additional questions, please email hello@evbatterychallenge.com
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**CONNECTIONS THAT MATTER**

Access to two leading mobility and energy storage companies—simplify the process to set up your initial collaboration, then interact with the open innovation and research teams every step of the way.

**CONSTRUCTIVE COLLABORATIONS**

Fabricate at our facilities with on-ground support from our skilled teams. Test with our technologies or products—we will even go as far as merging our technologies with yours, or install your devices on our pilot lines.
**SOLID SUPPORT**

Roll out your Proof of Concept project with no cost to you. Receive validation from LG Chem and Hyundai Kia Motor Company — both have the know-how and expertise to validate your technology.

**PARTNERSHIPS AND FUNDING**

Potential for strategic and future collaboration from experienced stewards with proven track records in mentoring and financing startups. From Joint Development Agreements to licensing.
We welcome you. Wherever you’re from, based or plan to launch

• Pre-commercial companies with a working prototype

• Technology Readiness Level (3-6) preferred

• Desire to work with LG Chem and/or Hyundai Kia Motor Company
Applicants should clearly lay out your product description, value proposition, business model, and technology expertise

1. Ideal candidates should have a validated concept and a working prototype

2. Team should present strong expertise in the battery and mobility sector

3. Clearly differentiate from existing solutions with plans to scale globally

4. The business model is based on credible commercial and economic assumptions
BATTERIES

Materials
I. Solid electrolyte
II. Lithium metal anode
III. Silicon anode
IV. Low cobalt or cobalt free

Manufacture & Quality Control
I. Electrode coating technologies
II. Quality inspection technologies

BMS
I. Active cell balancing
II. SOC/SOH/sudden death/thermal runaway predictions
III. Wireless BMS

Maintenance
I. Battery performance diagnostics and analytics
II. Prevention of battery performance fade
III. Performance optimization regarding usage patterns

Reuse
I. Diagnostics technologies for used batteries
II. Capacity balancing technologies for used battery modules
III. EV businesses employing used cells

Recycling
I. Low cost battery recycling technologies
II. Battery recycling businesses

Please note that the sub-categories are only examples.
ELECTRIC VEHICLES

Power Electronics Components For EV

I. Motor components (e.g. stator, rotor)
II. Controller components (e.g. power module)
III. Battery system components (e.g. high voltage relay, PU pad)

EV Charging and Battery Management System

I. Active cell balancing
II. SOC/SOH/sudden death/thermal runaway predictions
III. Wireless BMS
IV. Fast charging

EV Personalization Service

I. Services based on energy usage patterns

Please note that the sub-categories are only examples
New Energy Nexus

Ken Alston
Director

Yi Ke
Program Manager

Andrew Chang
Program Support

LG Chem

Sungrok Bang, Ph.D
Head of Department

Jim Kim
Open Innovation Director

Hakjin Jang
Senior Manager

Jiyoung Kim, Ph.D
Senior Manager

Yujiyoung Kim, Ph.D
Senior Manager

Hyundai and Kia

Keith Noh
Lead of Startup Incubation Team

Wooram Yang
Open Innovation Manager

Henry Chen
Lead of Open Innovation Team

Seungwan Kim, Ph.D
Open Innovation

Michelle Zhou
Senior Investment Associate
Please visit our website for FAQ and Terms and Conditions.

www.evbatterychallenge.com
Ready to meet LG Chem, Hyundai and Kia through the EV and Battery Challenge?

Apply here.