

Battery research and development new delhi

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Battery technology is the centrepiece of the Electric Vehicle ecosystem. There are a number of start-ups in the country making headway into research and development of battery technology and supporting domains.

This list features the most innovative, technology-driven Indian start-ups in this space (in no particular order) as of Jun 2020. The focus areas of these companies cover a wide range including indigenous battery design, repurposing of used batteries for second-life applications, research on new battery chemistries, development of supporting software, and firmware.

Founded in 2016, Ion Energy focuses on battery design, battery data analytics and development of Battery Management Systems (BMS).

The start-up takes a software-first approach for improving battery life and performance. Ion's flagship product is an advance Battery Intelligence platform called Edison Analytics that helps identify reasons for battery degradation and suggests corrective measures to increase battery life. The company also provides a platform for battery manufactures & OEMs to accelerate BMS development. ION's electronic PaaS (Platform as a service) solution allows companies to get their own BMS while slashing electronics cost by up to 40% and getting their product from the design phase to the market in as little as three months.

ION Energy acquired a French BMS company Freemans SAS in Feb 2018. EVreporter recommends the excellent blog on Ion Energy's website as a learning resource for batteries and BMS.

Founded in 2014, Log9 Materials is a leading startup in the field of nanotechnology.

Log9 Materials is the largest manufacturers of graphene in the country. With an aim to make global energy 100% clean, the start-up has developed aluminium fuel cells for both mobility and stationary energy applications. Their aluminium fuel cells can power an electric car to run over 1,000 km without needing to recharge. The company is currently focussed on building stationary power generation systems and eventually progress to mobility applications.

Log 9 has so far raised \$3.9 M in seed and Series A rounds. Watch this video for more information on start-up's technology and a look the electric car powered by the same.



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Founded in 2018, Grinntech works on Lithium-ion cell to pack technology and supplies Li-ion battery packs for multiple EV applications.

The technology is indigenously developed and helps cater to the application-specific needs of the Indian EV industry. They are based out of IIT Madras Research Park.

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