

Our Company

Intecells, Inc. is a VC-funded startup based in Michigan, cofounded in 2018 by Dr. Xiaohong Gayden and Plasmatrete GmbH. Intecells invented cold plasma based additive manufacturing techniques to enable low-cost, high performing batteries in 3D printable shapes.

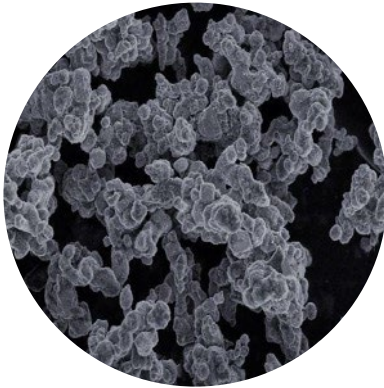
Our Innovation

The ever-increasing range of applications powered by batteries - such as smart devices, electric mobility, and energy storage - is driving drastic changes in the requirements for batteries. Intecells uses cold plasma powder coating (CPC) processes to produce binder-free electrodes and cells aiming to significantly reduce costs and carbon footprint associated with today's lithium-ion battery manufacturing.

This process innovation further enables the production of ultra- thick electrodes with tunable structures without trading high energy density for power performance. This solid-state process paves the way for Industry 4.0 in battery manufacturing and exciting products inspired by the 3D topologies and exceptional performance of batteries.



Manufacturing platform liberated from today's limitations across the entire battery value chain



MATERIALS

Cost advantages
through strategic
partnerships



ELECTRODES

Electrodes for any
chemistry, any shape,
at any scale



BATTERY/CELL

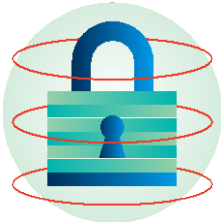
You design it,
we build it



PACK

"Powder to pack"
technology with
unlimited possibilities

The Intecells Advantage



Safety & Cycle Life

- 10x improvement in electrode coating adhesion
- Improved separator stability
- Improved cycle life due to robust coating process and cell design



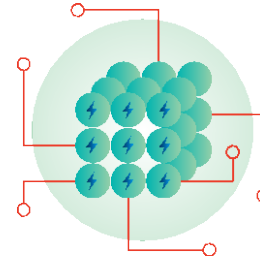
Size & Shape

- Limitless Battery Cell Shape & Configuration



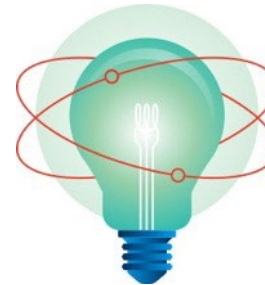
Cost

- 93% Manufacturing Cost Reduction
- Over 40% Battery Cost Reduction



Power & Energy Density

- Over 2x Energy and Power Density of Battery Cell



Footprint & Energy Usage

- 50x Less Electricity Consumption
- 60x Lower Manufacturing Footprint



Environmental Impact

- 50% Lower Carbon Emissions
- No Toxic Solvents