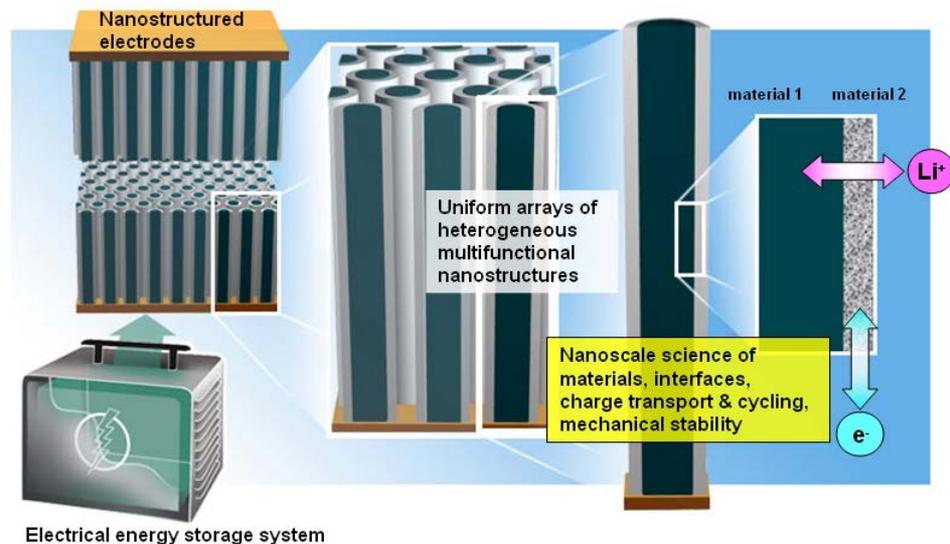


NEES investigates nanostructures to provide the scientific foundation for batteries and supercapacitors with dramatically higher power and energy density to **power electric vehicles** and **store energy from renewable resources**.

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The Center...

- **synthesizes nanosized structures** including carbon nanotubes, silicon nanowires, or thin layers of oxide materials to make composites that are mechanically strong and conduct high densities of ions and electrons.
- **designs new instruments** to measure properties of materials at the nanoscale inside electrochemical devices
- **develops new experimental and computational models** to clarify the mechanisms at work inside nanostructures for batteries.