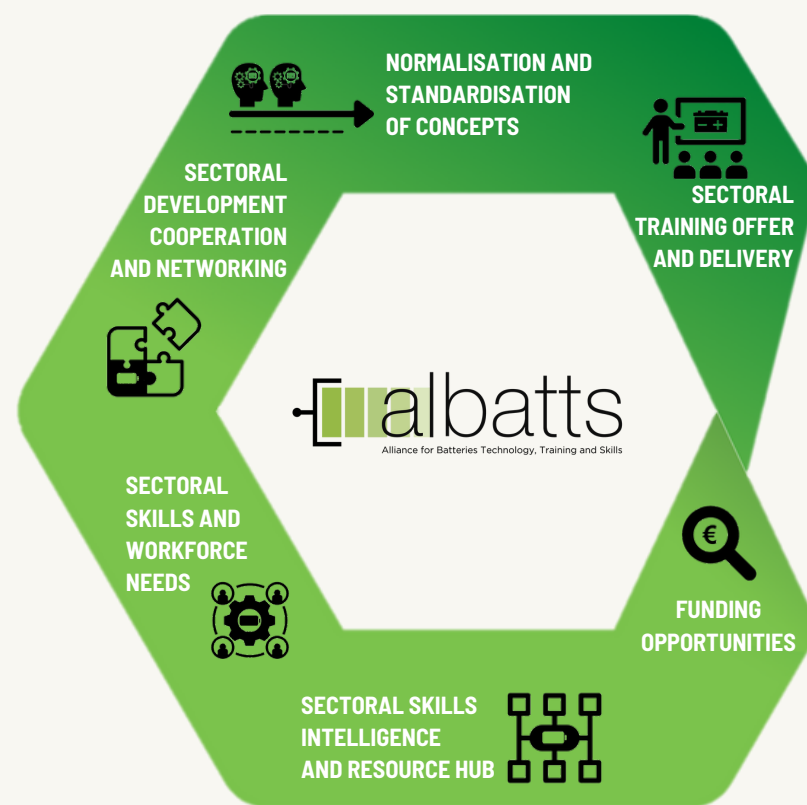


## SECTORAL SKILLS INTELLIGENCE & STRATEGY FOR THE EUROPEAN BATTERY SECTOR

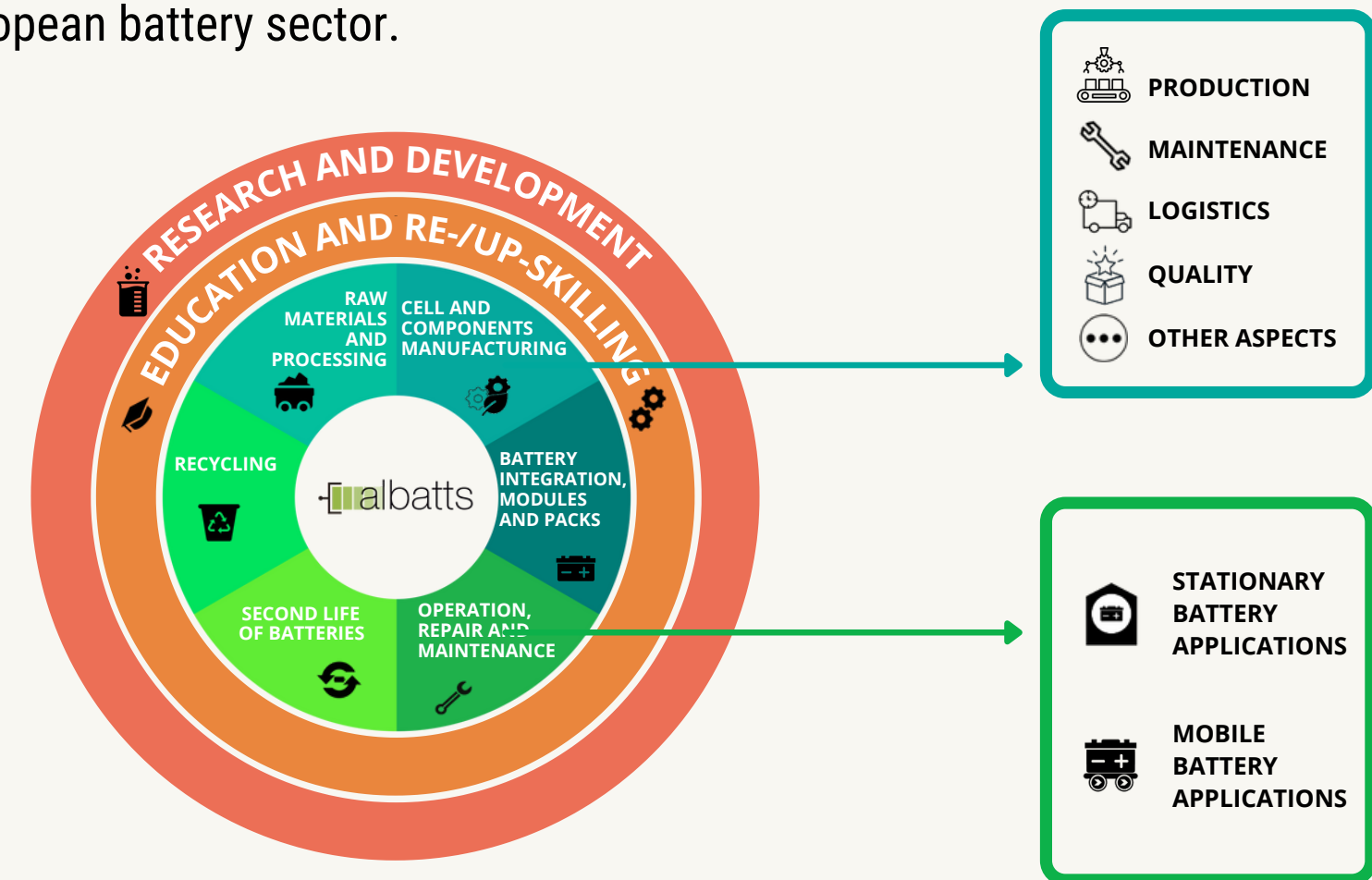
### D3.10 – Sectoral Skills Intelligence and Strategy – Release 2

This is the **second** release of the sectoral skills intelligence and strategy covering the whole European battery value chain from raw materials to recycling of batteries in terms of skills needs, job roles needs and recommendations.



Readers will find designated actions needed in the sector to boost the overall re-/up-skilling activities as well as cooperation, information sharing and provision and many more.

The report also provides quantitative and qualitative overviews of the skills and the job roles needs per identified areas of interest consisting of the battery value chain steps, as well as specific aspects of production, quality or safety tailored to the battery production or other processes that are happening within the European battery sector.



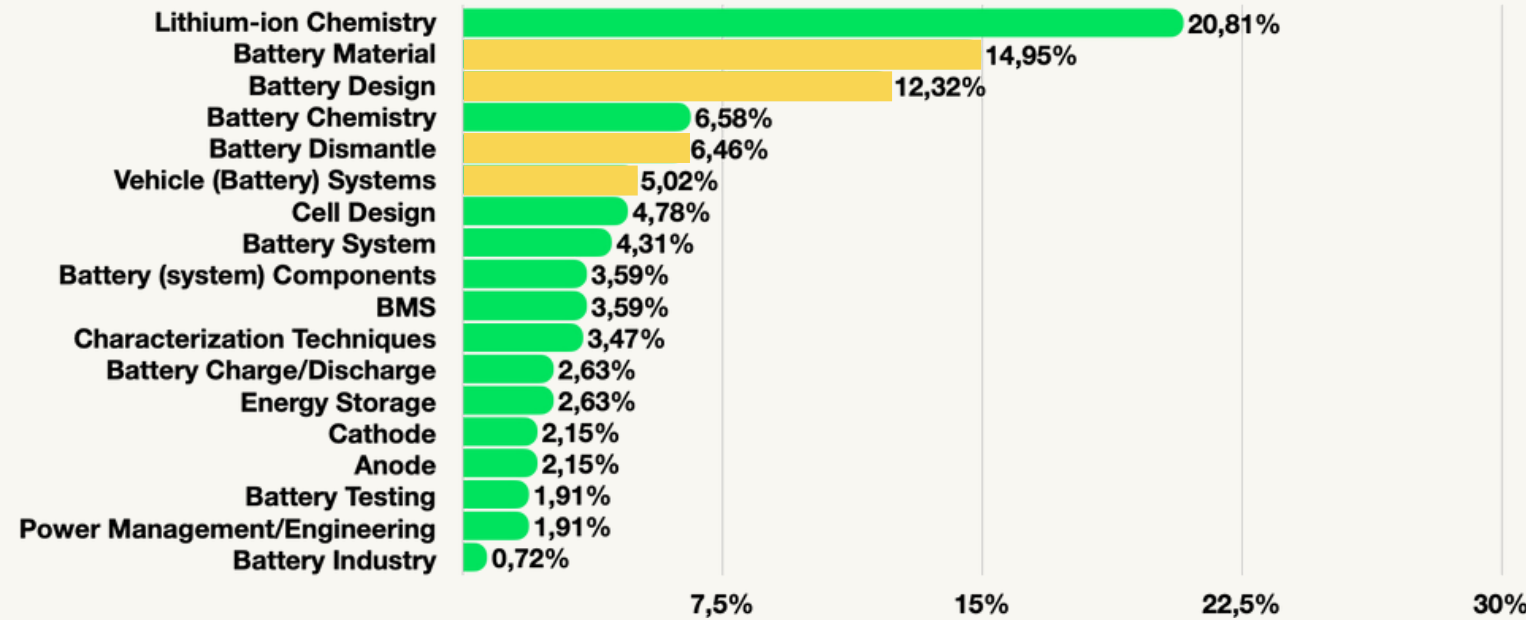
This factsheet provides a summary of the report in what regards **recycling**.



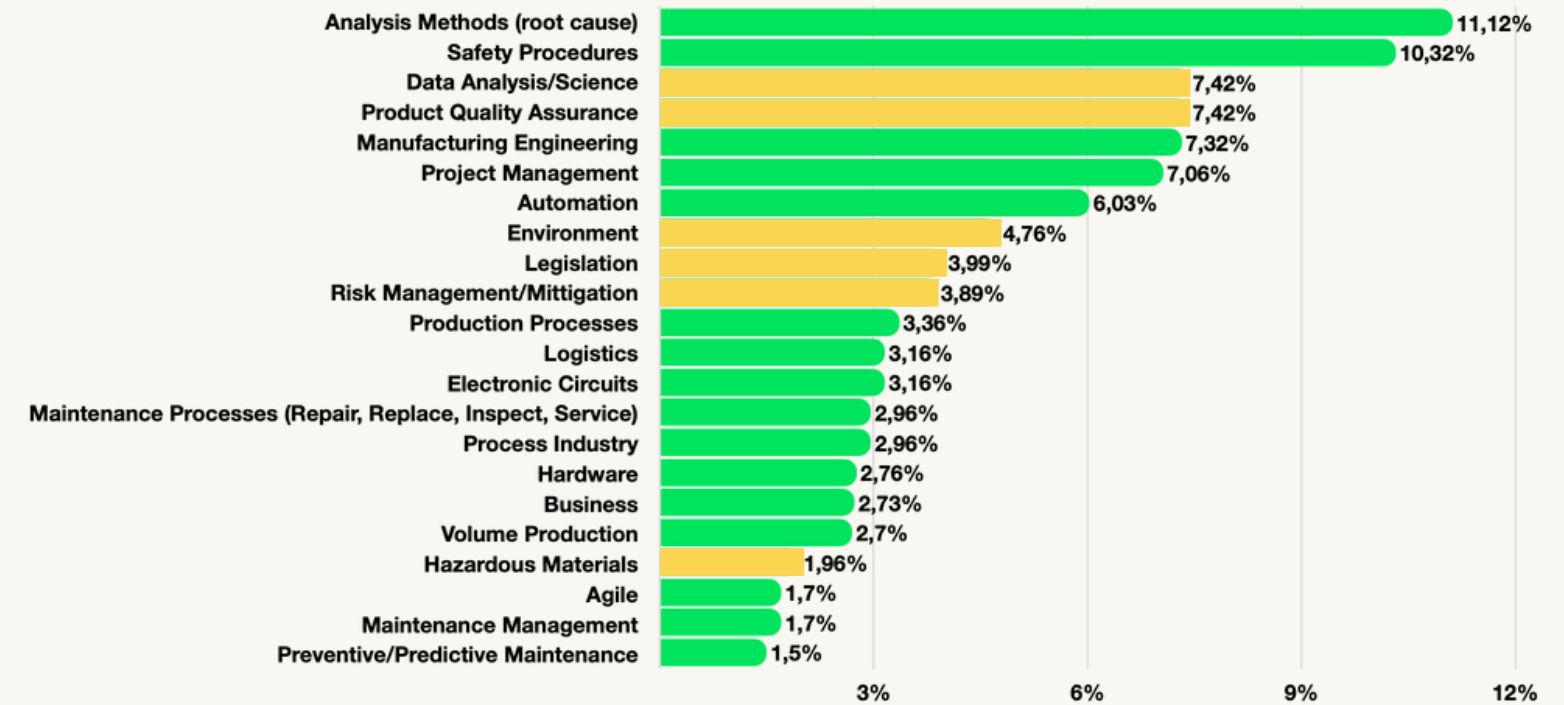


## SKILLS, COMPETENCES & KNOWLEDGE NEEDS

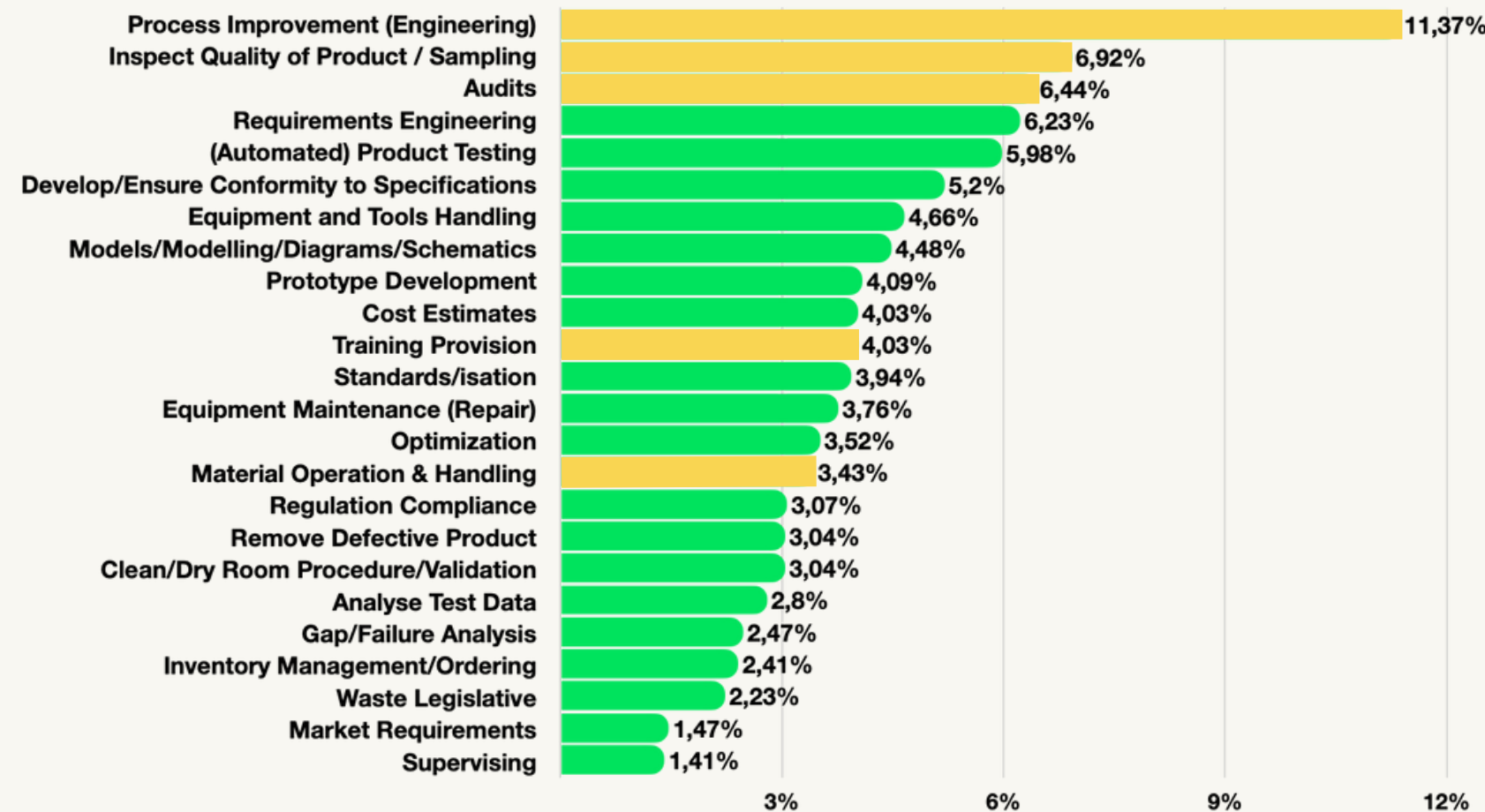
SECTOR SPECIFIC COMPETENCE



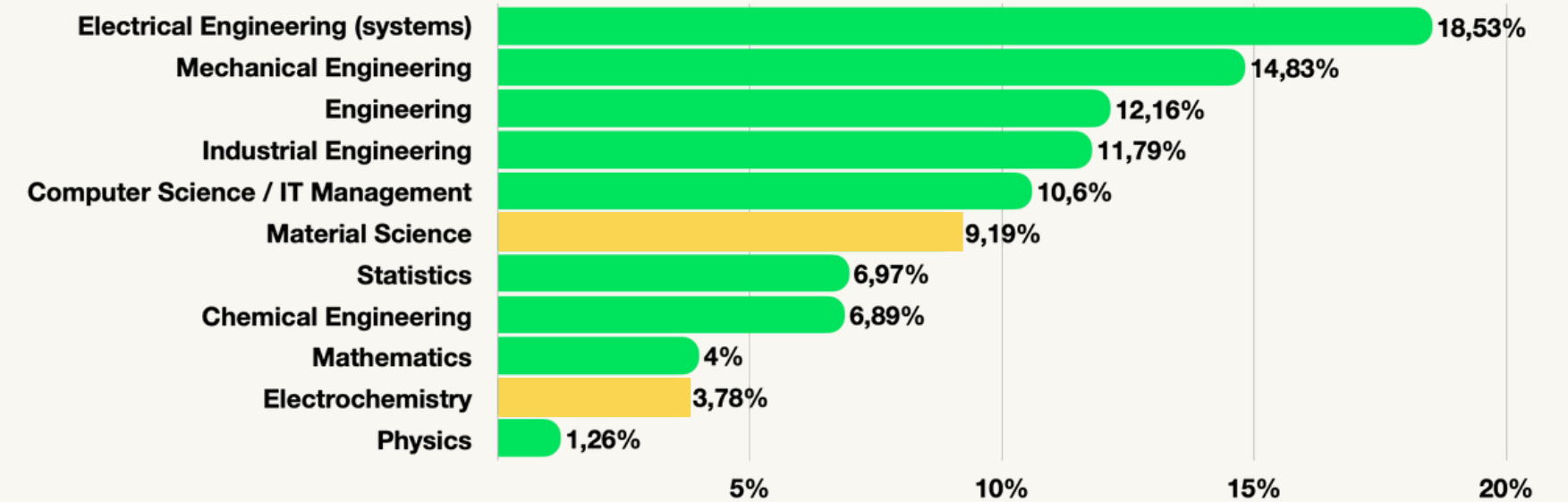
CROSS-SECTORAL SPECIFIC KNOWLEDGE



CROSS-SECTORAL SPECIFIC SKILLS



ACADEMIC COMPETENCE



YELLOW-HIGHLIGHTED ROWS – CONCEPT WAS ENDORSED/MENTIONED DURING THE WORKSHOP/INTERVIEW BY THE PARTICIPANTS

JOB ROLES

BLUE-COLLAR

RECYCLING TECHNICIAN  
 QUALITY TECHNICIAN  
**MACHINE OPERATOR**  
**MATERIAL HANDLER**  
**CELL INSPECTION TECHNICIAN**  
 AUTOMATION/PROCESS OPERATOR  
 MATERIAL PLANNER  
 DIRECT LINE WORKER

WHITE-COLLAR

LOGISTICS MANAGER  
**TECHNICAL PRODUCT MANAGER** **SAFETY MANAGER**  
 ISO INTERNAL AUDITOR SENIOR SCIENTIST  
 INDUSTRIAL PRODUCTION MANAGER **SENIOR AUTOMATION ENGINEER**  
 PROCESS ENGINEER **QUALITY PROCESS ENGINEER**  
 POWER SYSTEM REGULATORY ENGINEER **MECHANICAL ENGINEER**  
 CERTIFICATION & HOMOLOGATION MANAGER  
 INTERNAL LOGISTICS MANAGER **AUTOMATION ENGINEER**  
 DATA ANALYST **ELECTRICAL ENGINEER**  
 SAFETY SPECIALIST **BLUEPRINT DATA SCIENTIST**  
**BATTERY TEST ENGINEER** **MAINTENANCE ENGINEER**  
 QUALITY ENGINEER BATTERY MATERIALS ENGINEER  
 ENGINEERING TECHNICIAN COMPLIANCE ENGINEER

## CONSIDERATIONS / RECOMMENDATIONS

The most extensive recruitment challenges currently concern the hiring of engineers and researchers. In the set-up phase of recycling plants, most staff are university-educated white-collar employees. However, after a plant becomes more established, the share of blue-collar employees with vocational education increases.

With the battery recycling-related positions, it is important to know battery technologies and recycling processes (chemical/physical) themselves.

Regarding environmental legislation, it is important to understand related national and EU directives. Safety is also important.

It is recommended to provide education and training in the following areas: (1) Environmental management and circular economy concepts; (2) Battery design - Battery components: Cell, anode, cathode, electrolyte and Precursor design, Electrode design, Separator design; (3) Battery material (material science) - Battery fluids and chemistry (Lithium-ion) and other materials and their properties; (4) Vehicle and other battery systems; (5) Material flow including procurement; (6) Battery testers; (7) Recycling knowledge to enable developing recycling programs - Recycling processes and technologies, R&D, Automation; (8) Production Planning.

## LINKS & RESOURCES

- [Sectoral Skills Intelligence and Strategy - Recycling](#)
- See the [list of the ALBATTs SKILLS CARDS](#)



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