

AMULET: Modular battery pack for Li-Ion technology

Summary

Profile type	Company's country	POD reference
Research & Development Request	Slovenia	RDRSI20220606013
Profile status	Type of partnership	Targeted countries
PUBLISHED	Research and development cooperation agreement	• World
Contact Person	Term of validity	Last update
Tomaz Lutman	6/6/2022 6/6/2024	06/06/2022

General Information

Short summary

Slovenian producer of Li-Ion battery packs is looking for solution to the following challenge. Main purpose of the new modular battery pack is to design a product, that will provide a strong and lightweight base for modular battery pack assembly.

Call: H2020 AMULET cascade financing, budget 120.000 EUR, deadline 30.6.2022

Full description

Slovenian company stands for durable, powerful and innovative batteries for industrial and automotive sectors. The company is looking for two or three SMEs which would address the following scopes and objectives within AMULET Open call.

The company is developing new modular battery packs for Li-Ion technology and for this purpose, and is looking for new designs with advanced materials, that could improve the quality and durability of the battery housing.

- The new housing design will be used in different applications, ranging from material handling batteries, to stationary applications for energy storage.
- To ensure longevity for the product and to extend its life expectancy, the new housing must fulfil special requirements, that are described in objectives.
- The battery housing must fulfil requirements described in Ecodesign directive (2009/125/EC).
- The company is looking for SMEs, that have extensive knowledge in advanced materials and product design.

Objectives:

- New product design, that fits required dimensions.
- Lightweight product.
- Easy assembly and disassembly.
- Product must sustain 300kgf on prismatic cell walls.
- Thin side walls for easy cells insertion.
- Product design prepared for automatic assembly.
- Use of recyclable or reusable materials is advantageable.

IMPORTANT: This technical cooperation request refers to an innovation challenge published within the AMULET project (financed within the Horizon 2020 INNOSUP-01-2018-2020 call). If an organization (eligible are SMEs only) expresses interest before the closing date, it will be guided towards the AMULET project website (<https://amulet-h2020.eu/>), where all additional information and guidelines for submission are published. With the support of AMULET matchmaking activities or on their own, interested SMEs have to form micro-consortia of 2 or 3 SMEs, to prepare the solution to the specific innovation challenge and submit it through the AMULET application form.

Advantages and innovations

Stage of development

Concept stage

Sustainable Development goals

- **Goal 9: Industry, Innovation and Infrastructure**

IPR Status

No IPR applied

Partner Sought

Expected role of the partner

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Type of partnership

Research and development cooperation agreement

Type and size of the partner

- **SME 50 - 249**
- **SME 11-49**
- **SME <=10**

Dissemination

Technology keywords

- **02007014 - Plastics, Polymers**
- **02007005 - Composite materials**
- **02002005 - Forming (rolling, forging, pressing, drawing)**

Targeted countries

- **World**

Market keywords

- **08001004 - Fibre-reinforced (plastic) composites**
- **08001006 - Processes for working with plastics**

Sector groups involved

- **Materials**