

# AMULET: Lightweight active grid for replacement of lead alloy grids

## Summary

Profile type	Company's country	POD reference
<b>Research &amp; Development Request</b>	<b>Slovenia</b>	<b>RDRSI20220606019</b>
Profile status	Type of partnership	Targeted countries
<b>PUBLISHED</b>	<b>Research and development cooperation agreement</b>	<b>• World</b>
Contact Person	Term of validity	Last update
<a href="#">Tomaz Lutman</a>	<b>6/6/2022</b> <b>6/6/2024</b>	<b>06/06/2022</b>

## General Information

### Short summary

Slovenian producer of batteries is looking for solution to the following challenge. Replacement of lead alloy grid with lightweight material with better conductivity and resistant in dilute sulfuric acid. Seeking for lightweight material for active grid with electrical conductivity and resistant in dilute sulfuric acid.

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.

Replacement of lead alloy grid with lightweight material with better conductivity and resistant in dilute sulfuric acid. Seeking for lightweight material for active grid with electrical conductivity and resistant in dilute sulfuric acid. Achieving adhesion with active material to collect electrons from chemical reactions in active mass in batteries electrodes.

Objective is to develop a new lightweight active grid for battery electrodes with:

- Higher energy density (weight reduction)
- Reduce the use of lead
- CO2 emissions reduction

**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**

IPR Status

**No IPR applied**

Sustainable Development goals

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

## Partner Sought

Expected role of the partner

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.

Type of partnership

**Research and development cooperation agreement**

Type and size of the partner

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

## Dissemination

Technology keywords

- **02007015 - Properties of Materials, Corrosion/Degradation**
- **02007003 - Ceramic Materials and Powders**
- **02007005 - Composite materials**

Market keywords

- **08001013 - Ceramics**
- **08001020 - Electronic chemicals**
- **08001015 - Other speciality materials**

Targeted countries

- **World**

Sector groups involved

- **Materials**