



AMULET

**Advanced Materials and Manufacturing
Technologies united for Lightweight**

amulet-h2020.eu

**Project
Information**



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 101005435

Background

To reach the ambitious goal of a decarbonized and efficient circular economy, lightweight construction was identified to play a key role. Thereby, the application of advanced lightweight materials such as polymer-based composites, ceramic matrix composites and light metal alloys has already enabled significant weight reductions while increasing performance over the past decades. However, the application potential of advanced

lightweight materials that has been achieved scientifically and technically has not yet been fully exploited by small and medium-sized enterprises (SMEs). The trans-European project AMULET aims to exploit this innovation potential of SMEs through a cross-regional, cross-sectoral, funded knowledge exchange. This will establish new, pan-European value chains for advanced lightweight materials.

Considered Topics

4 sectors



building



aerospace
& aeronautics



energy



automotive

3 advanced materials



polymer-based
composites



ceramic matrix
composites



light metal alloys

Approach

APPLICATIONS



2 Open Calls



3 online matchmaking
events



More than 12 challenges



Up to 36 solutions invited
to the Jury Day online

FEASIBILITY STUDY



Up to 50 consortia
move forward to submit
a feasibility study



Duration: 4 months



10 pages



€23,000 per consortium

DEMONSTRATION



The best 13 consortia
move forward to
demonstrate their
solutions



Duration: 9 months



€80,000 per consortium

FOLLOW UP SUPPORT FOR INNOVATION



A more customized
and tailored educational
program will be made
available to the best up
to 13 SME consortia



Duration: 2 months



€17,000 per consortium

EDUCATIONAL SUPPORT

INDIVIDUAL COACHING

Expert coaching delivered to SME's

EDUCATIONAL COURSES

Business and technical educational material
(Video lessons, webinars and more)

Project Start**01. September 2021****Thematic competitions**

Topics eligible for funding	12
Size of the consortium (exclusively SMEs)	2-3
Represented EU countries per consortium	2-3
Maximum funding per consortium	€120,000 lump sum
Maximum funding per SME	€60,000 lump sum
TRL at project start	4-5
TRL at project end	7
Deadlines for application phase	Q2/2022 1st Open Call 12th April 2022
	Q1/2023 2nd Open Call 10th January 2023

Educational support

Launch of bilateral consulting for SMEs	03/2022
Launch of the online learning platform	08/2022
Launch of online webinars	08/2022

General contact

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Consortium

NTNU
Norwegian University of
Science and Technology

The consortium brings together a comprehensive network of over 1717 SMEs, 341 large companies and 93 universities, research and innovation institutes.

FLANDERS
MAKE
SMALL BUSINESS IN MANUFACTURE

MERGE
Cluster of Excellence

**BYDGOSZCZ
INDUSTRIAL CLUSTER
TOOL VALLEY**

FundingBox

AUTOKLASTR

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**CLUSTER
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LIGHTWEIGHT DESIGN AND TECHNOLOGY

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