



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

**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 fiber-reinforced polymers, 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

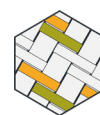


energy



automotive

3 advanced materials



fiber-reinforced
polymers



ceramic matrix
composites



light metal alloys

Approach

THEMATIC COMPETITIONS

1st Open Call

Q1/2022

2nd Open Call

Q4/2022

APPLICATIONS

📍 3 online matchmaking events

📅 Open: 15th February - 27th April 2022

📄 12 challenges

🏷️ Aprox. 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 consortia)

DEMONSTRATION

📄 Up to 13 consortia move forward to demonstrate their solutions

🕒 Duration: 9 months

🏷️ €80,000 (per consortia)

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 consortia)

EDUCATIONAL SUPPORT

INDIVIDUAL COACHING

Expert coaching delivered to SME's

EDUCATIONAL COURSES

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

All details are based on the information available at the time of preparation. All information is subject to change.

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	Q1/2022 1. open call 15th February 2022 Q4/2022 2. open call

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.

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