An Interdisciplinary Alliance on Materials for Clean Energy (ALMATCLEAN)

una europa SEED FUNDING

Una Europa Seed Funding Call 2025

Abstract

ALMATCLEAN aims to establish an interdisciplinary network of researchers focused on developing innovative materials to address the diverse challenges of the clean energy transition. Vital research areas include fuel cells, electrolysers, batteries, membranes and polymers for CO_2 capture and hydrogen technologies, as well as materials recycling. The consortium brings together expertise in chemistry, physics, engineering, materials science, and data science.

By addressing the full materials life cycle (from design and testing through development and scale-up to industrial application and end-of-life management) the network promotes a systems-thinking approach to clean energy materials research. Through its complementary multidisciplinary expertise, the consortium will be well positioned to develop competitive funding proposals aligned with European funding schemes.

Key enabling technologies within the programme include advanced fabrication and characterisation techniques, computational modelling, and artificial intelligence (AI) for the design of materials tailored to specific applications. The project will also support research training visits for early-career researchers and organise joint activities to enhance knowledge dissemination, industry and public engagement as well as networking.

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Participating institutions
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Budget
€ 38.683