Accelerate the design and Insertion of nonCRM hard Materials for Next generation EXTreme applications (AIM-NEXT)

Fact Sheet

Project Information

AIM-NEXT

Grant agreement ID: 101119897

DOI
10.3030/101119897

Funded under
Marie Skłodowska-Curie Actions (MSCA)

Total cost
€ 0,00

EU contribution
€ 2 710 166,40

Coordinated by
UNIVERSITAT POLITECNICA DE CATALUNYA
Spain

Objective

The AIM-NEXT project arises from the common need of European academy and industry to educate and train the next generation of experts in the field of “Sustainable design of material solutions for engineering applications”. In this regard, the need to Accelerate the design and Insertion of hard Material tools and components, manufactured using non-critical raw materials, for Next generation EXTreme applications has been identified as an area of strategic economic and environmental importance for the European Union, where accordingly the skills developed by the doctoral students are adapted to the current and future industrial
needs and the ongoing transformation towards more sustainable production processes. To address this need, a coherent international, interdisciplinary, and intersectoral training and research programme has been developed involving a selection of some of the best European Universities in the field together with worldwide leading Industrial organisations covering fundamental elements of the product value chain in key industrial sectors (i.e. mining, manufacturing and construction engineering). By participating in the AIM-NEXT project, the 10 Doctoral Candidates will receive: (i) top level interdisciplinary training through a defined scheme where each fellow is exposed to all three technical environments; (ii) intersectorial training articulated through a wide variety of strategic research themes and the different application areas represented in the consortium; and (iii) international training through a portfolio of mandatory network-wide training events and secondments at academic and industrial partners. Thus, the combination of technical and transferrable skills acquired by the fellows through technical training, interdisciplinary research and industrial exposure will enhance their employability and open up solid career opportunities to them, particularly within a field where skilled PhD engineers are currently an extremely scarce resource.

**Fields of science**

- engineering and technology ➔ civil engineering ➔ construction engineering
- social sciences ➔ economics and business ➔ economics ➔ sustainable economy

**Keywords**

- Hard materials
- Non-critical raw materials
- Extreme applications

**Programme(s)**

- HORIZON.1.2 - Marie Skłodowska-Curie Actions (MSCA) (MAIN PROGRAMME)

**Topic(s)**

- HORIZON-MSCA-2022-DN-01-01 - MSCA Doctoral Networks 2022

**Call for proposal**

- HORIZON-MSCA-2022-DN-01
Funding Scheme

HORIZON-TMA-MSCA-DN - HORIZON TMA MSCA Doctoral Networks

Coordinator

UNIVERSITAT POLITECNICA DE CATALUNYA

Net EU contribution
€ 503 942,40

Address
Calle jordi girona 31
08034 Barcelona
Spain

Region
Este > Cataluña > Barcelona

Links
Contact the organisation  Website  Participation in EU R&I programmes  HORIZON collaboration network

Other funding
€ 0,00

Participants (8)

LUNDS UNIVERSITET

Sweden

Net EU contribution
€ 293 709,60

Address
Paradisgatan 5c
22100 Lund

Region
SECO TOOLS AB
Sweden
Net EU contribution
€ 293 709,60
Address
Bjornbacksvagen 2
73782 Fagersta
Region
Östra Sverige > Östra Mellansverige > Västmanlands län
Links
Contact the organisation
Website
Participation in EU R&I programmes
HORIZON collaboration network
Other funding
€ 0,00

ELEMENT SIX LIMITED
Ireland
Net EU contribution
€ 286 488,00
Address
Shannon airport
Shannon
Region
Ireland > Southern > Mid-West
Links
REINISCH-WESTFAELISCHE TECHNISCHE HOCHSCHULE AACHEN

Germany

Net EU contribution

€ 260 539.20

Address

Templergraben 55
52062 Aachen

Region

Nordrhein-Westfalen > Köln > Städteregion Aachen

Other funding

€ 0.00

UNIVERSIDAD CARLOS III DE MADRID

Spain

Net EU contribution

€ 251 971.20

Address

Calle madrid 126
28903 Getafe (madrid)

Region

Comunidad de Madrid > Comunidad de Madrid > Madrid

Activity type

Higher or Secondary Education Establishments

Links
UNIVERSIDADE DE AVEIRO

Portugal

Net EU contribution

€ 243,403,20

Address

Campus universitário de santiago
3810-193 Aveiro

Region

Continente > Centro (PT) > Região de Aveiro

Activity type

Higher or Secondary Education Establishments

Links

CONTACT THE ORGANISATION
WEBSITE
Participation in EU R&I programmes
HORIZON collaboration network

Other funding

€ 0,00

INSTITUT POLYTECHNIQUE DE GRENOBLE

France

Net EU contribution

€ 282,693,60

Address

Avenue felix viallet 46
38031 Grenoble cedex 1

Region

Auvergne-Rhône-Alpes > Rhône-Alpes > Isère

Links

CONTACT THE ORGANISATION
WEBSITE
Participation in EU R&I programmes
HORIZON collaboration network

Other funding

€ 0,00
KUNGLIGA TEKNISKA HOEGSKOLAN

Sweden

Net EU contribution

€ 293 709,60

Address

Brinellvagen 8
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Region

Östra Sverige > Stockholm > Stockholms län

Activity type

Higher or Secondary Education Establishments

Links

Contact the organisation    Website
Participation in EU R&I programmes
HORIZON collaboration network

Other funding

€ 0,00

DURIT METALURGIA PORTUGUESA DO TUNGSTENIO LDA

Portugal

Net EU contribution

€ 0,00

Address

Arruamento c, zona industrial 24
3854 909 Albergaria-a-velha
Continente > Centro (PT) > Região de Aveiro

Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links
Contact the organisation
Participation in EU R&I programmes
HORIZON collaboration network

Other funding
€ 0,00

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HILTI AKTIENGESELLSCHAFT
Liechtenstein
Net EU contribution
€ 0,00

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Feldkircherstrasse 100
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Region
Liechtenstein > Liechtenstein > Liechtenstein

Links
Contact the organisation
Participation in EU R&I programmes
HORIZON collaboration network

Other funding
€ 0,00

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SANDVIK MINING AND CONSTRUCTION TOOLS AB
Sweden
Net EU contribution
€ 0,00

Address
811 81 Sandviken
F.I.L.M.S. S.P.A. (FABBRICA ITALIANA LEGHE METALliche SINTERIZZATE)

Italy

Net EU contribution

€ 0,00

Address

Via megolo 43
28877 Anzola d’ossola

Region

Nord-Ovest > Piemonte > Verbano-Cusio-Ossola

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