EUROPEAN ESRs NETWORK ON SHORT PULSED LASER
MICRO/NANOSTRUCTURING OF SURFACES

Fact Sheet

**Project information**

**LASER4FUN**

Grant agreement ID: 675063

[Project website](#)

Status

Closed project

Start date

1 September 2015

End date

31 August 2019

Funded under:

H2020-EU.1.3.1.

Overall budget:

€ 3 567 962,52

EU contribution

€ 3 567 962,52

Coordinated by:

BSH ELECTRODOMESTICOS ESPANA SA

Spain

**Objective**

Today, industrial markets demand highly added value products offering new features at a low-cost. To this extent, technologies to modify surfaces instead of creating composites or applying coatings on surfaces can offer new industrial opportunities. Current state of the art identifies short pulsed (SP)/ultra-short pulsed (USP) laser-material processing as a promising technology for structuring surfaces and thus for embedding new functionalities for industrial applications. The LASER4FUN research programme pursues to go far beyond the current state through the development of new surface micro/nano-structuring/patterning methods by using emerging SP/USP laser technologies (LIPSS, DLIP, DLW & hybrid tech). The research will focus on the interaction of laser energy with several materials (metals, semiconductors, polymers, glasses & advanced materials) and on new surface functionalities like tribology, aesthetics and wettability.

Moreover, LASER4FUN establishes an innovative training programme that aims at coaching a new generation of creative, entrepreneurial and innovative early stage researchers (ESRs) focused on laser surface engineering. This novel programme will contain both scientific and general skills training activities and it will benefit from training at a network (e.g. secondments). In total, 14 ESRs will be enrolled, developing individual research projects within LASER4FUN programme. After 36 months of research and training, the ESRs will be PH Doctors prepared to face EU laser-engineering new challenges.

LASER4FUN consortium involves 8 Academic partners (4 Universities –one of them as associated partner-
and 4 RTD institutions) ensuring the progress beyond the state of the art, and 3 industrial partners guaranteeing that final solutions will be close to the market. They are from 6 different EU countries. The close cooperation among multidisciplinary partners will ensure knowledge transfer to cross the death valley between science and the market.

**Field of Science**

/natural sciences/physical sciences/optics/laser physics

/engineering and technology/materials engineering/coating and films

/natural sciences/chemical sciences/polymer science

/engineering and technology/mechanical engineering/tribology

/natural sciences/physical sciences/electromagnetism and electronics/electrical conductivity/semiconductor

/engineering and technology/materials engineering/composites

/social sciences/economics and business/business and management/commerce

/natural sciences/chemical sciences/inorganic chemistry/metals

**Programme(s)**

H2020-EU.1.3.1. - Fostering new skills by means of excellent initial training of researchers

**Topic(s)**

MSCA-ITN-2015-ETN - Marie Skłodowska-Curie Innovative Training Networks (ITN-ETN)

**Call for proposal**

H2020-MSCA-ITN-2015

See other projects for this call

**Funding Scheme**

MSCA-ITN-ETN - European Training Networks

**Coordinator**
BSH ELECTRODOMESTICOS ESPANA SA

Address
Ronda Canal Imperial De Aragon Num 18 Parque Empresarial Pla-Za 50197 Zaragoza

Spain

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

EU Contribution
€ 247 872,96

Website
Contact the organisation

AIRBUS DEFENCE AND SPACE GMBH

Germany

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

Address
Willy-Messerschmitt-Strasse 1 82024 Taufkirchen

EU Contribution
€ 249 216,48

Website
Contact the organisation

FRAUNHOFER GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V.

Germany

Activity type
Research Organisations

Address
Hansastrasse 27c 80686 Munchen

EU Contribution
€ 498 432,96

Website
Contact the organisation

UNIVERSITEIT TWENTE

Netherlands

Activity type
Higher or Secondary Education Establishments

Address
Drienerlolaan 5 7522 Nb Enschede

EU Contribution
€ 510 748,56

Website
Contact the organisation

Participants (9)
<table>
<thead>
<tr>
<th>Organisation</th>
<th>Country</th>
<th>EU Contribution</th>
<th>Address</th>
<th>Activity type</th>
</tr>
</thead>
<tbody>
<tr>
<td>UNIVERSIDAD POLITECNICA DE MADRID</td>
<td>Spain</td>
<td>€ 495 745,92</td>
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<td>Research Organisations</td>
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<td>CONSIGLIO NAZIONALE DELLE RICERCHE</td>
<td>Italy</td>
<td>€ 258 061,32</td>
<td>Piazzale Aldo Moro 7 00185 Roma</td>
<td>Research Organisations</td>
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<tr>
<td>THE UNIVERSITY OF BIRMINGHAM</td>
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<td>€ 546 575,76</td>
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<td>Higher or Secondary Education Establishments</td>
</tr>
</tbody>
</table>
**Partners** (1)

1. **LEIBNIZ-INSTITUT FUR POLYMERFORSCHUNG DRESDEN EV**
   - **Address**: Hohe Strasse 6, 01069 Dresden
   - **Activity type**: Research Organisations
   - **EU Contribution**: € 249,216,48

2. **ROBERT BOSCH GMBH**
   - **Address**: Robert-Bosch-Platz 1, 70839 Gerlingen-Schillerhoehe
   - **Activity type**: Private for-profit entities (excluding Higher or Secondary Education Establishments)
   - **EU Contribution**: € 249,216,48

3. **UNIVERSIDAD DE ZARAGOZA**
   - **Address**: Calle Pedro Curbuna 12, 50009 Zaragoza
   - **Activity type**: Higher or Secondary Education Establishments

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