



# ARISE

Advanced Production and Intelligent Systems  
Associated Laboratory

## WORKSHOP TL1-NEW MATERIALS AND COMPONENTS

April 24, 2024  
Coimbra

Funding



Fundação  
para a Ciência  
e a Tecnologia



### R&D Units

## SYSTEC

RESEARCH CENTER  
FOR SYSTEMS & TECHNOLOGIES

 **INSTITUTO DE SISTEMAS E ROBÓTICA**  
UNIVERSIDADE DE COIMBRA

 **isise** Institute for Sustainability and  
Innovation in Structural Engineering

 **POLITÉCNICO DE LEIRIA** CDRSP CENTRE FOR  
RAPID AND SUSTAINABLE  
PRODUCT DEVELOPMENT

 **CEMMPRE**  
CENTRE FOR MECHANICAL ENGINEERING, MATERIALS AND PROCESSES

### Institutions

 **U. PORTO**

1 2  9 0

 **UNIVERSIDADE D  
COIMBRA**  
Universidade do Minho

 **POLITÉCNICO DE LEIRIA**

## AGENDA

10:00 - Welcome & TL1

10:15 - TL1 @SYSTEC

10:30 - TL1 @CEMMPRE

10:45 - Coffee-break

11:15 - TL1 @ISISE

11:30 - TL1 @ISC-UC

11:45 - TL1 @CDRSP

12:00 - Quiz

12:30 - Lunch

14:00 - Round table

15:00 - Laboratory visit\*

\*Laboratories in:

- Dep. of Mechanical Eng.  
(DEM)

- Led&Mat, Instituto Pedro  
Nunes

- Dep. of Chemical Eng.  
(DEQ)

- Dep. of Life Sciences  
(DCV)

Registration (mandatory): <https://ls.uc.pt/index.php/444741?lang=pt>

Deadline: April 12



[www.arise-la.com](http://www.arise-la.com)



**Auditorium**

**Department of Mechanical Engineering**

Pólo II - Universidade de Coimbra

Rua Luís Reis Santos, 3030-788 **Coimbra**



[cemmpre@uc.pt](mailto:cemmpre@uc.pt)

# \*Laboratory visit



## UC – Pólo I

### Life Sciences Dep. (DCV)

- Microbiology lab.
- UC Bacteria Culture Collection

## IPN: Instituto Pedro Nunes

### Laboratory for Wear, Testing & Materials (LED&MAT)

- Additive manufacturing lab.
- Mechanical characterization lab.
- Physical-chemical characterization lab.
- Polymer transformation lab.
- Powder technologies lab.
- Surface modification lab.

## UC – Pólo II

### Mechanical Eng. Dep. (DEM)

- Additive manufacturing lab.
- Applications Simulation lab.
- Industrial Engineering Management lab.
- Manufacturing processes simulation lab.
- Mechanical characterization lab.
- Physical-chemical characterization lab.
- Robotic lab.
- Surface modification lab.

## UC – Pólo II

### Chemical Eng. Dep. (DEQ)

- Modification and characterization of (bio)nanomaterials and biosensors lab.
- Polymer synthesis and characterization lab.

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