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Anno accademico A.A. 2025/2026 - XXXIX Ciclo

D.M. n. 118 del 02.03.2023 - PNRR, Missione 4, componente 1 – Investimento 3.4. e Investimento 4.1.

D.M. n. 117 del 02.03.2023 - PNRR, Missione 4, componente 2.

***ACCORDO DI COOPERAZIONE PER ATTIVITÀ DI FORMAZIONE PRESSO UNIVERSITÀ /
CENTRI DI RICERCA ALL'ESTERO.***
**COOPERATION AGREEMENT FOR EDUCATION ACTIVITY AT UNIVERSITIES /
RESEARCH CENTERS ABROAD**

TRA / BETWEEN

*Il Dipartimento di Architettura e Design dell'Università degli Studi Mediterranea di Reggio Calabria, rappresentata dal Direttore Prof.ssa Consuelo Nava / The Department of Architecture and Design of Mediterranean University of Reggio Calabria, represented by the Head **Prof.ssa Consuelo Nava**;*

*il Corso di Dottorato di Ricerca in Architettura / and the Ph.D. Program in Architecture, rappresentato dal Coordinatore Prof. Daniele Colistra / represented by the Coordinator, **Prof. Daniele Colistra**,*

E/AND

*Il Dipartimento di Architettura, Urbanistica e Pianificazione Spaziale, Facoltà di Ingegneria Civile e Architettura, Lublin University of Technology / Department of Architecture, Urban Planning and Spatial Planning, Faculty of Civil Engineering and Architecture, Lublin University of Technology, represented by **Vice-Dean, Associate Professor Natalia Przesmycka, PhD, DSc***

*Premesso che l'accordo viene stipulato allo scopo di dare l'attuazione dell'attività formativa all'estero del dottorando / Given that the agreement is entered into in order to put into effect the research grant abroad of the **Ph.D. Student Eliana Catalano** presso il / at Il Dipartimento di Architettura, Urbanistica e Pianificazione Spaziale, Facoltà di Ingegneria Civile e Architettura, Lublin University of Technology / Department of Architecture, Urban Planning and Spatial Planning, Faculty of Civil Engineering and Architecture, Lublin University of Technology per il periodo / for the period **(01/05/2026 – 31/10/2026)***

si conviene quanto segue / it is agreed as follow

Il Dipartimento di Architettura, Urbanistica e Pianificazione Spaziale, Facoltà di Ingegneria Civile e Architettura, Lublin University of Technology / Department of Architecture, Urban Planning and Spatial Planning, Faculty of Civil Engineering and Architecture, Lublin University of Technology si impegna, senza richiesta di oneri, ad ospitare il dottorando presso le proprie strutture, garantendo l'accesso alle biblioteche, ai laboratori, l'utilizzo di strutture e mezzi, l'assistenza didattico-scientifica per lo svolgimento del programma didattico scientifico concordato / undertakes, with no additional charges, to host the holder of the post-doc fellowship at its facilities abroad, providing access to libraries, laboratories, the use of equipment and resources, educational and scientific assistance to carry out the research program.

Che garantiranno lo svolgimento del seguente piano di attività da che il dottorando dovrà svolgere: / All above will ensure the development of the following research program, during the period the Ph.D Student will spend abroad:



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During the research period, the PhD student will carry out activities aimed at deepening and consolidating the advanced stages of doctoral research, with particular reference to the development and application of *digital models and simulation tools* for the evaluation and optimisation of architectural envelope performance in climate change scenarios. The period will be focused on the integration and validation of the methodological workflows already developed during the thesis, through the use of *environmental simulations, computational modelling and data-driven approaches*, to support the assessment and verification phases of the technological solutions investigated. Scientific dissemination activities and participation in research events are also planned, in line with the themes and outcomes of the doctoral research.

Activity plan

- **Consolidation and integration of the methodological workflows developed**, with particular reference to the integration between digital modelling, environmental simulations and performance assessment criteria applied to the architectural envelope in climate change scenarios, to support the final development of the models and analytical processes implemented (May 2026);
- **Targeted application of simulation models and computational tools to case studies and demonstrators**, aimed at the comparative evaluation of energy and environmental performance and the optimisation of design parameters through computational design approaches and Regenerative Digital Design (June 2026);
- **Interpretation and validation of results by aligning digital outputs**, already available experimental data and performance indicators, with particular attention to the critical reading of results in relation to technological readiness levels (TRL) and their transferability to the climatic and typological contexts of reference for the research. this phase includes the consolidation of the assessment framework, the validation of performance indicators across pilot cases, and the preparation of final scientific outputs and dissemination activities aligned with the validated results of the research (July – October 2026);
- **Preparation of a joint scientific publication** related to the Ph.D. research topic, developed in collaboration with the practice supervisor, focusing on the methodological and analytical outcomes of the research and intended for submission to an international peer-reviewed journal (May–October 2026)

Le strutture, i laboratori, (o altro) sotto elencati potranno essere utilizzati dal dottorando nell'ambito dell'attività di ricerca finalizzata alla realizzazione del programma di ricerca: / The facilities, laboratories, (or more) listed below may be used by the Ph.D. Student during the research activity abroad:

- 1. A dedicated workspace with access to relevant software, including related tools;*
- 2. All available data concerning the city of Lublin in the context of climate change, including environmental and climatic datasets;*
- 3. The opportunity to participate in teaching activities at various levels of study.*

Il presente accordo avrà la durata di mesi 6 / This agreement will last for (number of months) 6 months corrispondenti al periodo di svolgimento dell'attività formativa all'estero del dottorando / corresponding to the research period the Ph.D. Student will spend abroad.

Reggio Calabria, 17/02/2026



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Per il Dipartimento di Architettura e Design dell'Università degli Studi Mediterranea di Reggio Calabria /
For the Department of Architecture and Design of Mediterranean University of Reggio Calabria
Visto/Approved

Il Coordinatore / The Coordinator
Prof. Daniele Colistra

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Il Direttore del Dipartimento/ The Head of the Department
Prof.ssa Consuelo Nava

.....

Per l'ente di Ricerca / For the Vice-Dean,
Associate Professor Natalia Przesmycka, PhD, DSc

.....

Z up. Rettora Politechniki Lubelskiej


Prodziałan ds. studenckich
Wydziału Budownictwa i Architektury
dr hab. inż. arch. Natalia Przesmycka