

**NOTICE OF APPLICATION
FOR ADMISSION TO DOCTORAL RESEARCH PROGRAMMES
POLITECNICO DI BARI
A.A. 2024/2025 - Integration**

Art. 1

Concerning art. 2 of the Notice of Application for admission to Doctoral Research Programme - XL cycle (rif. R.D. 697/2024), the course description no. 8 – related to the joint PhD with Università del Salento and Istituto per le Tecnologie della Costruzione del Consiglio Nazionale delle Ricerche (ITC-CNR) in Sustainability Engineering and Safety of Civil & Industrial Buildings (DRISS) – is replaced as follows:

1. Joint PhD with

Università del Salento, Istituto per le Tecnologie della Costruzione del Consiglio Nazionale delle Ricerche (ITC-CNR) in

Sustainability Engineering and Safety of Civil & Industrial Buildings - DRISS

Coordinator: Prof. Mario Daniele Piccioni

Department of Architecture, Construction and Design

PLACES AVAILABLE no. 9

(1 grant is reserved for graduates from non-Italian universities), of which:

- **2 places with “Patti Territoriali” grant as part of the project “Patto Territoriale Sistema universitario pugliese”**
- **1 place with grant funding as per “Ministerial Decree 629/2024”**
- **3 places with grant co-funded by private bodies as per Ministerial Decree 630/2024**
- **1 place with grant funding from ITC-CNR**
- **2 places without grant funding**

Total annual grant (gross total before social security contributions made by the beneficiary): € 18,679.45

RESEARCH TOPICS AS PER “MINISTERIAL DECREE 629/2024” AND “PATTI TERRITORIALI” PLACES

Available grants: 3

1. Safety of structures made of innovative materials: large deformations models
2. New technological solutions for sustainable and low energy consumption constructions
3. Energy communities: new frontiers for the sustainable management and valorization of the use of hydrogen as an energy source
4. Innovative composite material lifting platforms
5. Zero energy factory: decarbonization and flexible energy management in industrial buildings
6. Development of remote techniques for structural health monitoring of offshore wind turbines
7. Innovative heat transfer fluids for industrial and civil energy applications with reduced environmental impact

RESEARCH TOPICS AS PER PLACES CO-FINANCED BY PRIVATE BODIES

Available grants: 3

1. Research and development of windows and doors as selective factors for energy exchanges. Analysis of behaviors and indications for the development of new products for universal use and economically sustainable -- co-financed by **LFM S.p.A.**
2. Safety and sustainability of civil construction: material and construction sites -- co-financed by **Matarrese S.p.A.**
3. Replacing the acid pickling process for tanks for agribusiness use with laser pickling in the interests of environmental sustainability and energy conservation - co-financed by **MM Steel s.r.l. (Università del Salento)**

Part of the research activity must be carried out by beneficiaries of this grants at the premises of the body/company in line with a research programme agreed upon by the parties.

RESEARCH TOPIC AS PER ITC-CNR PLACE

Available grants: 1

1. Vibration Serviceability Of Road bridges - financed by **Istituto per le Tecnologie della Costruzione del Consiglio Nazionale delle Ricerche** within funding related to PNRR - Missione 4 "Istruzione e Ricerca" - Componente C2 Investimento 1.1, "Fondo per il Programma Nazionale di Ricerca e Progetti di Rilevante Interesse Nazionale (PRIN)" Bando PRIN 2022 PNRR - Project "ViSOR" (Vibration Serviceability Of Road bridges) - CUP B53D23027090001

Art. 2

Any further disposition of the above-mentioned call (R.D. 697/2024) is confirmed.

Bari, 17 June 2024

Prof. Francesco CUPERTINO

Rector, Politecnico di Bari