



# **Politecnico di Bari**

## **Education, Research and Innovation**

Presentation by ILO Office

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# Overview



## Politecnico di Bari

- Founded in 1990
- Focuses on the studies of Engineering and Architecture
- One of the three Polytechnics existing in Italy and the only one in the centre-south
- Its researchers are at the top of international rankings for excellence in several flagship areas for both new technologies and typical engineering sciences



# Overview

## TERRITORIAL OFFICES

Bari\_University Campus  
Bari\_Ex Scianatico workshops  
Bari\_Japigia  
Bari\_Isolato47  
Taranto\_Centro Magna Grecia  
Foggia\_Educational Center



500

TEACHERS, RESEARCHERS  
AND STAFF

12.000

STUDENTS

5

DEPARTMENTS

In the last three years there were:

- around 12.000 undergraduate and postgraduate students every year, of which about 31% are women
- about 3.000 students registered every year
- about 150 enrolled in research doctorate courses every year
- about 1.900 graduates each year, of which more than 500 are within the legal term
- employment rate at 3 years from the two-year master's degree 82.4%
- employment rate at three years from degree single-cycle 76.8%



Politecnico di Bari

# Research

In 2022 there were:

- Over 1000 scientific publications
- 26 research grants
- 8 EU funded projects
- 3,3 M€ sponsored research and industrial consultancy

QS WORLD UNIVERSITY RANKINGS 2023

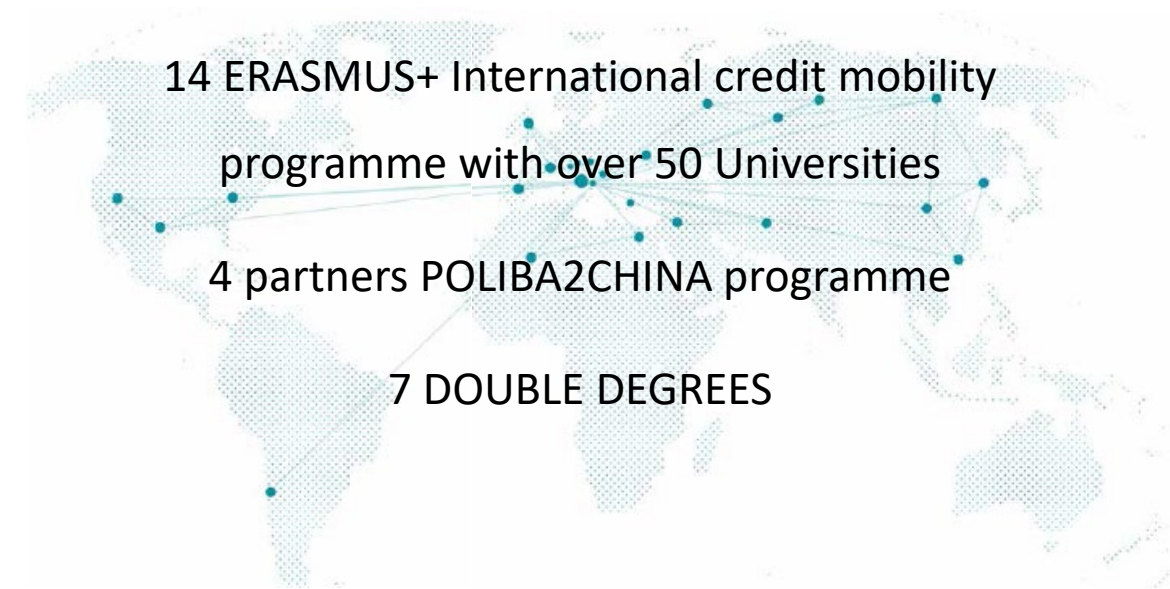
Subject	Institutions considered	Institutions ranked	2023	2022	Academic	Employer	Citations	H	International
Architecture	1172	240	201-240	-	49,8	45,1	84,5	72,8	-
Engineering – Mechanical	1923	520	251-300	251-300	59,9	55,8	80,7	63,2	37,8
Engineering – Electrical	1669	520	451-500	401-450	43,6	50,2	81	62,6	30
Engineering & Technology	2069	530	501-530	-	64,4	46,9	80,9	64,7	56,1



# Education

- 11 three-year Degree courses
- 13 Master's Degree courses
- 1 single-cycle Degree course
- 4 post-Degree courses
- 4 PhD courses
- 1 Post-graduate School
- 7 study courses with double degree agreements
- 5 study courses delivered in English
- More than 150 incoming Erasmus students
- More than 280 outgoing PoliBa Erasmus students
- **Ranked 3rd in Italy for students satisfaction**

## INTERNATIONAL COLLABORATIONS



numbers from 2022



Politecnico di Bari

# Departments

- Department of Architecture, Construction and Design (ARCOD)
- Department of Civil, Environmental, Land, Building Engineering and Chemistry (DICATECH)
- Department of Mechanics, Mathematics and Management (DMMM)
- Department of Electrical and Information Engineering (DEI)
- Department of Physics “Michelangelo Merlin” (with Università di Bari)

Politecnico di Bari is also structured in the following two interdepartmental centres:

- Magna Grecia;
- Interdepartmental Centre “Startup Lab”.



# Innovation | Activities and numbers

Innovation Summary Indicators	2022 values
Spin-offs	24
Alive patents (pending or granted)	12
Income from Commissioned Research and Technology Transfer (€)	3.307.250,00
Public-private laboratories	15
Private research contracts	17



# Innovation | PoliBa Incubator

## BOOSTING INNOVATION IN POLIBA



### Tech and Business Incubation Programs

- Selection of innovative research ideas and projects
- Fundraising for the start of the project
- Technological prototyping and business model development
- Support in the search for partners and scale-up opportunities

### Open Innovation programs

- Startups and technology intelligence
- Venture client
- Venture building
- Call for ideas & Hackathon
- Design thinking for new product & service





# Innovation | PoliBa Incubator

## Activities

- **Call for Planet** – Three-year agreement with the Tech4Planet Polo promoted by CDP VC in the field of sustainability
- **Call for Biotech** – Three-year agreement with Polo Extend promoted by CDP VC in the biotech field
- **Investment agreement with Scientifica VC** – Three-year agreement for the seed enhancement of initiatives on Advanced Manufacturing and AI with open call mode
- **Investment agreement with the Golinelli Foundation** – Three-year agreement for the seed enhancement of initiatives on Life Science, Industry 4.0, Social Impact with open call mode
- **Main sponsorship by Intesa Sanpaolo** – Three-year sponsorship agreement for tech and business incubation programs
- **Call for Aerospace** – Four-year agreement with Polo Galaxia promoted by CDP Venture Capital in the Aerospace sector. The Call will be opened between February and March 2023 and will be open for three months
- **Open Innovation Journey** – Agreement with Talent Garden for the development of open innovation program initiatives for large companies
- **Agreement with Acquedotto Pugliese** for the development and management of open innovation activities (exploration & exploitation)
- **Three-year agreement with Polo Galaxia** promoted by CDP VC in the aerospace sector



# Public-private laboratories

Laboratory's name	Company partners
Repair Development Center Lab (RDC)	GE Avio
Energy Factory Bari (EFB)	GE Avio
More Electric Transportation Lab (MET)	Centro Studi Componenti per veicolo spa – Bosch Group
Business Process Management Competence Center BPM-CC	Openwork
PolySense Lab	THORLABS
Innovation for Mills Lab (I4M)	Casillo Group, Idea75
Cyber Physical Systems Arol Bari – CPS	Arol
Istituto Poligrafico e Zecca dello Stato IPZS-POLIBA	Istituto Poligrafico e Zecca dello Stato
Digital Future	Exprivia



# Public-private laboratories

Name	Azienda partner
Energy Transition to the Future EFT	Centro Combustione Ambiente
Laboratorio Multidisciplinare IOT 4.0	Istituto Italiano di Ricerca e Sviluppo - Organismo di Ricerca (Isires), Elettroc80, SM.I.LE80
Innovation Hub	Terna
Baker Hughes Pump Lab	Baker Hughes
Cognitive Automation	COMAU
NTT Data Italia	NTT Data Italia



# Spin-offs

Name	Link
AESEI Architectural & Engineering Survey of Environment and Infrastructures S.r.l.	<a href="http://www.aeseisrl.it">www.aeseisrl.it</a>
AP-IS Apulia-Intelligent System S.r.l.	<a href="http://www.spinoffapis.com">www.spinoffapis.com</a>
Apulian Bioengineering S.r.l.	<a href="http://www.apulianbioengineering.com">www.apulianbioengineering.com</a>
AUTOLOGS - Automation in Logistics and Service Systems S.r.l.	<a href="http://www.autologs.eu">www.autologs.eu</a>
BEST - Bari Electronic Systems for Telecommunications S.r.l.	<a href="http://www.bestengineering.it">www.bestengineering.it</a>
B.R.E.D. - Building - Refurbishment and Diagnostic S.r.l.	<a href="http://www.bred-srl.com">www.bred-srl.com</a>
DES - Diagnostic Engineering Solutions S.r.l.	<a href="http://www.desinnovation.com">www.desinnovation.com</a>
GAP - Geophysical Applications Processing S.r.l.	<a href="http://www.gapsrl.eu">www.gapsrl.eu</a>
GEET - Geo Environmental Energy Technologies S.r.l.	



# Spin-offs

Name	Link
IDEA (Innovation, Decision, Environment, Awareness) Research Transfer S.r.l.	<a href="http://www.idea-rt.com">www.idea-rt.com</a>
Ingenium S.r.l.	<a href="http://www.ingenium.poliba.it">www.ingenium.poliba.it</a>
Innolab S.r.l.	<a href="http://www.innolabsrl.it">www.innolabsrl.it</a>
Innovative Solutions S.r.l.	<a href="http://www.innovative-solutions.it">www.innovative-solutions.it</a>
Microlaben S.r.l.	<a href="http://www.microlaben.com">www.microlaben.com</a>
Polimech S.r.l.	
Polishape 3D S.r.l.	<a href="http://www.polishape3d.it">www.polishape3d.it</a>
Quavlive S.r.l.	<a href="http://www.quavlive.com">www.quavlive.com</a>
T&A - Tecnologie & Ambiente S.r.l.	<a href="http://www.tecnologiaeambientesrl.com">www.tecnologiaeambientesrl.com</a>



# Spin-offs

Name	Link
Wideverse S.r.l.s.	<a href="mailto:info@wideverse.com">info@wideverse.com</a>
Blokkio S.r.l.	
Polysense Innovations S.r.l.	<a href="mailto:polysense@poliba.it">polysense@poliba.it</a>
Donkey Power S.r.l.s.	
Wea Techo S.r.l.	
Omnigrasp S.r.l.	



# Patents - general information

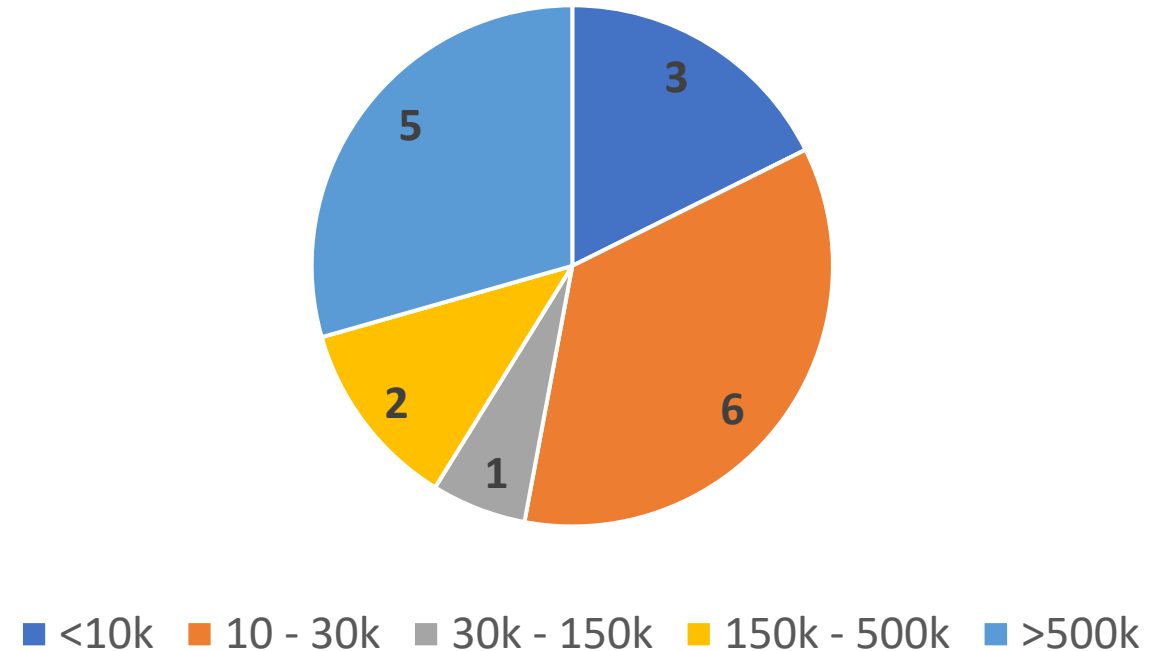
- 1 patent in co-ownership with a foreign university
- patents with extension (pending or granted) of protection in:  
Europe (6), China (3), USA (3), Japan (1)
- Patented inventions in the field of: mechanical engineering (4), construction engineering (3);  
physics (1), computer engineering (1), architecture or design (3)
- 2 winning patents from the PoC (Proof of Concept) call of the Italian Ministry of Economic  
Development (MISE)



# Private research contracts

- No. of private research contracts: 17.
- Total amount: over €3 million.
- Some financing partners: Fincons, GE Avio, Tesmec Rail.

No. of private research contracts and revenues (€)





# Contacts

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## Useful links:

Politecnico di Bari website: <http://www.en.poliba.it/>

Politecnico in figures (ITA): <https://www.poliba.it/it/ateneo/ateneo-cifre>

Research Catalogue: [http://www.poliba.it/sites/default/files/catalogo\\_-\\_definitivo\\_a5\\_144pp.pdf](http://www.poliba.it/sites/default/files/catalogo_-_definitivo_a5_144pp.pdf)

Third Mission website (ITA): <https://terzamissione.poliba.it/>

