

**CURRICULUM VITAE
EUROPEAN FORMAT**



PERSONAL DATA

Name and Surname

PIRRI CANDIDO FABRIZIO

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CENTER FOR SUSTAINABLE FUTURE TECHNOLOGIES
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Nazionalità

Italian

Birth Date

04/04/1962

CURRENT POSITION

2001-today

**Full Professor of Physics of Matter
Politecnico di Torino**

Scientific Coordinator of the Materials and Processes for Micro & Nano Technologies research group

<https://areeweb.polito.it/ricerca/micronanotech/main-page>

2017- today

**Director and Scientific Coordinator of the Center for Sustainable Future Technologies
Istituto Italiano di Tecnologia – IIT**

<https://www.iit.it/it/centers/csft-polito>

**WORKING AND RESEARCH
MANAGEMENT EXPERIENCE**

1998-2003

Member of the INFM Semiconductor and Insulators Division National Committee

2002- today

Founder and Coordinator of the “Chilab - Materials and Microsystems Laboratory” (www.polito.it/micronanotech).

Politecnico di Torino

This is the first Laboratory dedicated to Micro and Nano Technologies created in Piedmont and funded by “Documento Unico di programmazione 1997-99 della regione Piemonte ‘Diffusione

dell'innovazione tecnologica nell'industria manifatturiera del Canavese": Consorzio per il Distretto Tecnologico del Canavese (presidente Dr. Bolatto) – Sottoprogetto 5 "Microsistemi e materia" grants.

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|--------------|---|
| 2003-2018 | Coordinator of the "Laboratorio di Tecnologie Elettrobiochimiche Miniaturizzate per l'Analisi e la Ricerca (LATEMAR)", National Center of Excellence of MIUR (Ministry of Education, University and Research) http://www.latemar.polito.it/ |
| 2006- 2010 | Founder and Coordinator of the International Master Degree in "Nanotechnologies for ICTs" in collaboration with EPF Losanna and INP Grenoble, Politecnico di Torino |
| 2010 - today | Member of the Executive Committee of NanotecIT - Italian Association for Nanotechnologies AIRI (Associazione Italiana per la Ricerca Industriale) |
| 2011- 2016 | Director of "Center for space Human Robotics"
Istituto Italiano di Tecnologia, Corso Trento, Torino |
| 2015- today | Member of the "Safety & Environmental Analysis Division for Oil & Gas" Scientific Committee, Ministry of Economical Development, MISE
In this framework he is responsible for the SEADOG project aiming at establishing a Competence Center dedicated to the "Low Carbon Economy" technologies @ ENVIRONMENT PARK in Turin |
| 2015- today | Appointed by Piedmont Region as representative in the "Board of High Level Group of EU Member States and H2020 Associated Countries on Nanosciences, Nanotechnologies and Advanced Materials Unit D3 - Advanced Materials and Nano Technologies, European Commission DG Research & Innovation" |
| 2015- today | Member of the Executive Committee of the Italian Nanotechnologies Association |
| 2017- today | Coordinator of the Horizon2020 project "Recycling carbon dioxide in the cement industry to produce added-value additives: a step towards a CO2 circular economy" (RECODE project; grant agreement No 768583)
https://www.recodeh2020.eu/ |
| 2017- today | Coordinator of the Horizon2020 project "Engineered microbial factories for CO2 exploitation in an integrated waste treatment Platform" (ENGICoin project; Grant Agreement No. 760994)
https://www.engicoin.eu/ |
| 2017- today | Director of the Center for Sustainable Future Technologies
Istituto Italiano di Tecnologia, Environment Park, Via Livorno 60, Turin |
| 2018-today | Co-Founder and Member of the Management Committee of the InterDepartments Laboratory BioMed, Politecnico di Torino |
| 2018- today | Responsible for Politecnico di Torino of the project "Piemonte Quantum Enabling Technology" funded by Piedmont Region for the start-up of a clean-room technological facility dedicated to the quantum technologies and nanotechnologies in the framework of AZIONE I.1a.5.1 "Sostegno alle infrastrutture della ricerca considerate critiche/cruciali per i sistemi regionali piemontesi" bando INFRA-P Sostegno a progetti per la realizzazione, il rafforzamento e l'ampliamento di IR pubbliche in Piemonte |
| 2018- today | Coordinator for the Italian Institute of Technology project "CO2 Circle Lab" for the start-up of a Laboratory dedicated to the valorization of CO2 and funded by Piedmont Region in the framework of AZIONE I.1a.5.1 "Sostegno alle infrastrutture della ricerca considerate critiche/cruciali per i sistemi regionali piemontesi" INFRA-P grants. |

2018-today	Member of the Scientific Committee of the Metrologic Research National Institute (INRIM) Strada delle Cacce, Torino
2019-today	Member of Innovation and Research Committee of Provincia Autonoma di Trento
2020-today	Member of Directive Committee of AIRI (Italian Association for Industrial Research)
2022-today	PNRR Coordinatore del Progetto a valere su "Concessione di finanziamenti destinati alla realizzazione o ammodernamento di Infrastrutture Tecnologiche di Innovazione" da finanziare nell'ambito del PNRR Missione 4, "Istruzione e Ricerca" - Componente 2, "Dalla ricerca all'impresa" - Linea di investimento 3.1, "Fondo per la realizzazione di un sistema integrato di infrastrutture di ricerca e innovazione", finanziato dall'Unione europea – NextGenerationEU dal titolo "Components and Systems for Energy Transition" (CoSyET)
2022-today	PNRR Infrastruttura di ricerca sulla Transizione Energetica iENTRANCE, vice coordinatore e responsabile scientifico della unità del Politecnico di Torino
2022-today	PNRR COMPLEMENTARE SALUTE (DD MUR n.931 del 06/06/2022) progetto «Digital Driven Diagnostics, prognostics and therapeutics for sustainable Health care» D3-4-Health, responsabile scientifico dello SPOKE del Politecnico di Torino.

EDUCATION

1994-2000	Assistant Professor, Politecnico di Torino
1992-1994	Post-doc, Politecnico di Torino
1992	PhD in Physics of Matter, Politecnico di Torino
1987	Master Degree in Nuclear Engineering, Politecnico di Torino

EVALUATION COMMITTEES

2004	Member of the Evaluation Board for Scientific and Industrial Projects for MIUR (Ministry of Education, University and Research) and MAP (Ministry for Production Activities)
2004-2012	Member of the Evaluation Committee of Emilia-Romagna Region for the regional research and technological transfer Projects
2005	Member of the Evaluation Board of the "Veneto Nanotech" Technological District
2005	Member of "Board of Evaluation of Projects financed by Ateneo Italo-tedesco"
2005-today	Member of the Evaluation Board of the French PNANO programme (French national programme in nanosciences and nanotechnologies)
2006	Consultant for the Regional Agency ITP (Invest in Turin and Piedmont) with particular reference to the industrial activities in the field of micro and nano-technologies
2009-2012	Member of the "Nanotechnologies Group" of MIUR (Coordinated by Prof. R. Cingolani) for the National Research Plan (PNR 2009-2013);

2009-2015	Member of the Scientific Board of "Osservatorio Tecnologico Politecnico – ENI PETROLI" a Partnership Program aiming to evaluate projects for the development of new technologies in the Energy sector
2012-2014	Member of the MIUR Delegation as a National Expert in the topic "Nanotechnologies, Materials and Production Systems (NMP) Programm" in the European Programme Committees for the 7th EU R&TD Framework Programme
2017-today	Member of the "Board of evaluation" of the Israel Ministry of Science, Technology and Space
2018-2021	Member of the Scientific Committee of the Metrologic Research National Institute (INRIM), Strada delle Cacce, Torino

SKILLS AND PERSONAL COMPETENCES

MOTHERTONGUE **ITALIAN**

OTHER LANGUAGES

	English
• Reading skills	EXCELLENT
• Writing skills	EXCELLENT
• Oral Expression skills	EXCELLENT
	French
• Reading skills	ELEMENTARY
• Writing skills	ELEMENTARY
• Oral Expression skills	ELEMENTARY

ENTREPRENEURIAL AND TECHNOLOGICAL TRANSFER ACTIVITIES

2005-oggi	Scientific Responsible of more than 40 Industrial Research Contracts for a total managed greater than 12.000.000 Euro
2005-oggi	Scientific Responsible of more than 38 Public Research Projects in collaboration with Companies for a total managed higher than 25.000.000 Euro
2005-oggi	Scientific Responsible of more than 80 Contracts, Agreements and Research Collaborations with Companies (FIAT, OPComputer, Olivetti, Balteadisk, Olivetti-Lexicon, Ansaldo, GRINP di Torino, Elettrorava S.p.A, International Rectifier, VISHAY, Varian Inc., Gruppo Ribes, FINMECCANICA; THALES-ALENIA, ST-Microelectronic, IBM, ENI, Tecnomare, TELECOM, INDESIT SpA,, Novasis srl, Ferrero SpA, Lavazza SpA, EUROCLONE SpA, AVIOSPACE, ASTRIUM, LAMP srl, FINSERVICE srl., Avio, Edison, Martur, Sabelt, SMAT, Centro Ricerche FIAT.....)
2007	Co-founder of Trustech srl (http://www.trustech.it/). Until April 2011 Member of the Board of Directors

2008	Co-founder of the spin off Nanosynthex (Nanotechnologies for Biomedical Diagnostic Devices) - MIUR "legge 297 art. 81". Until July 2015 Member of the Board of Directors
2008-today	Responsible for the Partnership Agreement between Politecnico di Torino and Vishay S.p.A
2009	Co-founder of the Spin off Politronica srl (http://www.politronica.eu/) Until April 2011 Member of the Board of Directors
2009-2015	Member of the Scientific Council "Osservatorio Tecnologico Politecnico – ENI PETROLI"
2010-2012	Member of the Board of Directors of Biodiversity S.p.A.
2018-2020	Responsible for Politecnico di Torino in the framework of the Regional Project Piemonte Quantum Enabling Technology for the start-up of a Technological Pole for the production support (AZIONE I.1a.5.1 "Sostegno alle infrastrutture della ricerca considerate critiche/cruciali per i sistemi regionali)
2018-2020	Responsible for the Istituto Italiano di Tecnologia for the Project "CO2 Circle Lab" for the start-up of a Piedmont Pole supporting the production system in the framework of "low carbon economy" and "energy sustainability" (AZIONE I.1a.5.1 "Sostegno alle infrastrutture della ricerca considerate critiche/cruciali per i sistemi regionali)

PATENTS

2009	28.09.2009 n. TO2009A000735: Politecnico di Torino - CNR-INFM "SISTEMA A VENTOSA PER SIGILLATURA REVERSIBILE DI DISPOSITIVI MICROFLUIDICI POLIMERICI ELASTOMERICI" (SUCTION SYSTEM FOR REVERSIBLE SEALING OF ELASTOMERIC POLYMERIC MICROFLUID DEVICES).
2009	25.11.2009 n. TO2009A000915: Politecnico di Torino - CNR-INFM - Università degli Studi di Trieste - Biodiversity S.p.a. "DISPOSITIVO MICROFLUIDICO, PARTICOLARMENTE PER LA RIVELAZIONE DI VARIANTI GENICHE" (MICROFLUIDIC DEVICE, PARTICULARLY FOR THE DETECTION OF GENOMIC MUTATIONS).
2010	16.3.2010 n. TO2010A000196: Politecnico di Torino - CNR-INFM "Dispositivi microfluidici per applicazione in campo biomedicale, fabbricati in materiale polimerico composito" (Microfluidic devices for application in the biomedical field, manufactured in composite polymeric material).
2010	29.10.2010 n. TO2010A000865: Politecnico di Torino - Fondazione Bruno Kessler - Matteo Cocuzza "Purificazione ed amplificazione di acidi nucleici in un dispositivo microfluidico comprendente superfici di polidimetilsilossano" (Purification and amplification of nucleic acids in a microfluidic device comprising polydimethylsiloxane surfaces).

RESEARCH PERFORMANCE

- *Materials and nanotechnologies for bio applications; sensors for biomed monitoring; biotechnologies for CO2*
- *Micro and Nanotechnologies for biomedical applications, Microsensors, MEMS, Lab-On-Chip*

SCOPUS Author ID: 56585664000

*Publications: >460 international peer reviewed papers;
H index Scopus: 48; citations > 9000
<http://orcid.org/0000-0003-4991-9459>*

According to law 679/2016 of the Regulation of the European Parliament of 27th April 2016, I hereby express my consent to process and use my data provided in this CV

Turin, April 10, 2023

Prof. Candido Fabrizio Pirri