



## Europass Curriculum Vitae

### Personal information

First name(s) / Surname(s) **Filomena Pinto**  
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E-mail [filomena.pinto@lneg.pt](mailto:filomena.pinto@lneg.pt)  
Nationality Portuguese  
Date of birth 25.02.1957  
Gender Female

### Occupational field

Senior Researcher

### Work experience

Dates **2001 - 2020**  
Occupation or position held Senior Researcher (“Investigador Principal”) at LNEG (formerly INETI).  
Type of business or sector R&D, Governmental Laboratory.

Dates **2008 - 2020**  
Occupation or position held Visiting professor  
Type of business or sector FCUL (Faculdade de Ciências da Universidade de Lisboa) - Lisbon University

Dates **1994 - 2001**  
Occupation or position held Researcher (“Investigador Auxiliar”) at INETI  
Type of business or sector R&D, Governmental Laboratory

Dates **1989 - 1993**  
Occupation or position held Researcher Assistant at INETI (Portuguese Research Institute)  
Type of business or sector R&D, Governmental Laboratory.

Dates **1982 - 1988**  
Occupation or position held University lecturer at Instituto Superior Técnico,  
Type of business or sector Lisbon University

### Education and training

Dates 1996  
Title of qualification awarded PhD in Chemical Engineering.  
Principal subjects Hydrocarbons production by Coal Liquefaction under pressure.  
Organization University of Lisbon

Dates 1985  
Title of qualification awarded MSc in Chemical Engineering  
Principal subjects Zinc Extraction with Liquid Solvents.  
Organization Technical University of Lisbon / IST

Dates 1982  
Title of qualification awarded 5 years Degree in Chemical Engineering.  
Organization Technical University of Lisbon / IST

Mother tongue(s) Portuguese

Self-assessment

European level (\*)

**English**

**French**

**Spanish**

| Understanding |           |         |           | Speaking           |           |                   |           | Writing |           |
|---------------|-----------|---------|-----------|--------------------|-----------|-------------------|-----------|---------|-----------|
| Listening     |           | Reading |           | Spoken interaction |           | Spoken production |           |         |           |
| C2            | Excellent | C2      | Excellent | C2                 | Very Good | C2                | Very Good | C2      | Excellent |
| C2            | Very Good | C2      | Very Good | C1                 | Good      | C1                | Good      | C1      | Good      |
| C2            | Very Good | C2      | Very Good | C1                 | Good      | C1                | Good      | C1      | Good      |

Social skills and competences

Large experience in the organization of teams, leading and working in groups. Ability to talk in public – conferences, lectures and institutional visits.

Main Areas of Scientific Activity

Energy production from fossil fuels and/or wastes by thermochemical processes (combustion, gasification, pyrolysis and liquefaction) and hydrothermal processes (hydrothermal carbonisation, hydrothermal liquefaction and supercritical water gasification)  
 Production of biofuels (gaseous, liquids and solids)  
 Bio-refinery  
 Fluidised bed technology  
 Energy production from biomass  
 Catalytic processes  
 Syngas cleaning and upgrading  
 Bio oil upgrading processes  
 CCS (carbon capture and sequestration)  
 Hydrogen separation through membranes  
 Development of renewable fuels and processes  
 Energy efficiency  
 Emissions control from thermochemical processes  
 Hydrogenation of oils and animal fats

Other Professional Interests/Activities

1994 - 2015 National delegate in WPFF (Working Party on Fossil Fuels) of IEA, International Energy Agency.  
 1995 - 2005 National delegate in PyNE - Pyrolysis Network for Europe

Computer skills and competences

User of Microsoft Office 2010 and previous versions (MS Power Point, MS Excel, MS Word). Programmer in Fortran.

Experience as Scientific Adviser

Expert Evaluator of 7<sup>th</sup> FP and H202 proposals  
 Supervisor of 7 PhD Thesis (6 already finished)  
 Supervisor of 31 Master Thesis (29 already finished)

Co-Coordination of R&D Projects

- 7220-PR/089 — Comparison of combustion and gasification technologies to process coal and waste mixtures” — Financed by “ECSC-European Coal and Steel Community, RTD Programme.
- 7220-PR/078 — Development of alternative use of marginal coal achieving a thermal improvement blending with biomass (COLIVE) — ECSC.
- 7220-PR/142 – Thermal Improvement of High Rank Coals-Oil Wastes Blends Combustion and Gasification (CO-OIL) – Financed by ECSC.
- 4.1030/C/00-015/200 – Opportunities for bio-oil in European heat and power market — Financed by EC ALTENER Programme.
- FAIR/CT95/0270 — Application of fluidised bed technology to improve the combustion of corkwaste.
- RFC-CR-04006 – Advanced Gas Purification Technologies for Co-gasification of Coal, Refinery By-products, Biomass and Waste – AGAPUTE – Financed by RFCS-Research Programme of the Research Fund for Coal and Steel for Research, Pilot and Demonstration Projects”.
- RFC-PR-04011 – Coal catalytic co-gasification in an innovative rotary kiln gasifier – COCACORK – RFCS
- RFC-PR-04001 – Development of a new generation of coal-derived environmentally friendly pitches – ECOPITCH – Financed by RFCS.
- RFC-PR-04010 – Clean syngas from carbonaceous materials for highly efficient electric energy generation – CLYCARGAS – Financed by RFCS.
- POCI/ENR/63388/2004 – Valorization of used tyres, plastics and biomass wastes by pyrolysis to produce

- valuable end products – Financed by FCT – Fundação para a Ciência e a Tecnologia.
11. PETER - Parque Experimental Transfronteiriço Sobre Energias Renováveis - Financed by INTERREG III A Cooperación Transfronteriza España-Portugal.
  12. RFCR-CT-2006-00003- HYDROSEP - Hydrogen separation in advanced gasification processes - Financed by RFCS
  13. "SOLBIOPOLISY - Biofuel polygeneration system integrating MSW landfill gas and solar energy - Financed by 6th Framework Programme (FP6).
  14. RFCR-CT-2007-00005 - FLEXGAS - Near zero emission advanced fluidised bed gasification – Financed by RFCS
  15. RFCR – CT – 2010 – 00009 - FECUNDUS – Advanced concepts and process schemes for CO<sup>2</sup> free fluidised and entrained bed co-gasification of coals – Financed by RFCS.
  16. "RefinOlea: Valorização integrada de resíduos" – Financed by QREN - Quadro de Referência Estratégico Nacional – Duração: 2010-2012.
  17. ENER/FP/249804 - GASBIOREF - Gasification of Biofuels and Recovered Fuels - Financed by "7th Framework Programme" (FP7).
  18. 251151 - PROETHANOL2G – Integration of Biology and Engineering into an Economical and Energy-Efficient 2G Bioethanol Biorefinery – Financed by "7th Framework Programme" (FP7).
  19. ENERMASS – Cluster transnational d'innovation pour la valorisation énergétique de la biomasse – Financed by SUDOE-INTERREG IVB.
  20. PTDC/AAG-REC/3477/2012 – RICEVALOR-Energetic valorisation of wastes obtained during rice production in Portugal – Financed by FCT.
  21. PTDC/AGR-FOR/3872/2012 – The forgotten components of forest sustainability: the below-ground biomass of *E. globulus* – Financed by FCT.
  22. SecMilho – Aproveitamento do carolo e/ou palha de milho como fonte de energia dos secadores de milho– Financed by PRODER – Programa de Desenvolvimento Rural.
  23. STAGE-STE – Scientific and Technological Alliance for Guaranteeing the European Excellence in Concentrating Solar Thermal Energy – Financed by FP 7, Grant Agreement N° 609837 (2014-2018).
  24. M4ShaleGas – Measuring, monitoring, mitigating managing the environmental impact of shale gas – Financed by Horizon 2020, Grant Agreement, N° 640715 (2015-2018).
  25. SMIBIO – Development of flexible small-scale integrated biorefineries to produce an optimal range of bioproducts from a variety of rural agricultural and agro-industrial residues/wastes with a minimum consumption of fossil energy – ERANET-LAC (2015-2018).
  26. BioEnergyTrain – Financed by Horizon 2020, Grant Agreement, N° 656760 – Duração: 2015-2019.
  27. Phoenix – – People for the European bio-ENERgy mix – Financed by H2020-MSCA-RISE-2015 (2015 - 2019).
  28. RFCR-RPJ-709493 – DIRPRIMCOAL – Direct Primary Coal Liquefaction via an Innovative Co-processing Approach with Waste and Petroleum Feedstocks - financed by Research Programme of the Research Fund for Coal and Steel (2016-2019).
  29. Ambition – Advanced biofuel production with energy system integration – Financed by HORIZON 2020 Call – LCE 33 – 2016 – Grant Agreement, N° 731263 (2016 – 2019).
  30. CONVERTE – Potencial biomássico para energia – POSEUR-01-2016-36 (2017 – 2018).
  31. BIOFABXXI – Reactor bi-funcional de pré-tratamento e pirólise para produção de biocombustíveis e produtos de valor acrescentado –P2020 (2017-2019).
  32. BIOMASTEP – Desarrollo y transferencia a las empresas bioenergéticas de una tecnología innovadora NIR (Near-Infrared Spectroscopy) para el análisis rápido y económico de la calidad de biomasa autóctona del área transfronteriza – EP - INTERREG V A España Portugal (POCTEP) (2017-2019).
  33. BRISK II - Biofuels Research Infrastructure for Sharing Knowledge II - Financed by HORIZON 2020-INFRAIA-2016-2017 – Grant Agreement, N° 731101 (2017 – 2022).
  34. iCAREPLAST – Integrated Catalytic Recycling of Plastic Residues Into Added-Value Chemicals – Horizon 2020 (2018 – 2021).
  35. Greenfuel – Sistema de baixas emissões para a produção de combustíveis verdes e de compostos bioativos de elevado valor comercial baseado na biorefinaria de gordonia alkalinovorans estirpe 1B – FCT (2018 – 2021).

## Publications

- 19 - Chapters in books
- 80 - Papers in international scientific periodicals with referees
- 11 - Papers in Portuguese periodicals with referees
- 43- Papers in conference proceedings with Referee
- 170- Papers in conference proceedings without Referee

