



UNIVERSITÀ  
DEGLI STUDI  
FIRENZE

AREA  
SERVIZI ALLA  
DIDATTICA  
  
DOTTORATO



Finanziato  
dall'Unione Europea  
NextGenerationEU



## DOCTORAL PROGRAMME IN INDUSTRIAL ENGINEERING

CYCLE XXXVIII

Academic year 2022/2023

### FINAL RANKINGS

In accordance with the D.R. n. 1173 (prot. n. 210702) signed on 29<sup>th</sup> September 2022 by the Rector of the University of Florence:

D.M. 352/2022 - Scholarships co-funded by Companies

**Analysis of possible technical and economic scenarios for the application of hydrogen in hard-to-abate companies and energy communities**

	SURNAME	NAME	FINAL SCORE	RESULT
1.	ADEMOLLO	ANDREA	88/100	Position with scholarship

D.M. 352/2022 - Scholarships co-funded by Companies

**Analysis and Development of Environmentally Sustainable Subtractive Processing**

	SURNAME	NAME	FINAL SCORE	RESULT
1.	MAURYA	SUNIL	83,70/100	Position with scholarship

D.M. 352/2022 - Scholarships co-funded by Companies

**Application of ML and AI algorithms for the development of advanced techniques in monitoring & control of natural gas distribution networks**

	SURNAME	NAME	FINAL SCORE	RESULT
1.	SILEI	MATTIA	88,50/100	Position with scholarship

D.M. 352/2022 - Scholarships co-funded by Companies

**Design, Engineering and Industrialisation of Mechanical Solution for Marine Litter Collection in Ports**

	<b>SURNAME</b>	<b>NAME</b>	<b>FINAL SCORE</b>	<b>RESULT</b>
1.	LAZZERINI	GUIDO	92/100	Position with scholarship

D.M. 352/2022 - Scholarships co-funded by Companies

**Pyrolysis process modelling and experimentation for circular carbon and raw material recovery in hard-to-abate industries**

	<b>SURNAME</b>	<b>NAME</b>	<b>FINAL SCORE</b>	<b>RESULT</b>
1.	MINIATI	ALESSIO	93/100	Position with scholarship
2.	SANAD	AMR MOATAZ MOHAMED KADOUSALLA	89,50/100	Eligible

D.M. 352/2022 - Scholarships co-funded by Companies

**Numerical modelling for improving the energy efficiency of HVAC&R components**

	<b>SURNAME</b>	<b>NAME</b>	<b>FINAL SCORE</b>	<b>RESULT</b>
1.	GIUNTI	LORENZO	87/100	Position with scholarship

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**Robotic Systems for surgery and rehabilitation**

	<b>SURNAME</b>	<b>NAME</b>	<b>FINAL SCORE</b>	<b>RESULT</b>
1.	MAGGI	LORENZO	86,30/100	Position with scholarship
2.	BARSACQ	ALICIA	81,70/100	Eligible

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**Study of embrittlement phenomena in hydrogen pipelines (hydrogen transport) and analysis of possible internal coatings with polymeric materials to contain the same phenomenon**

	<b>SURNAME</b>	<b>NAME</b>	<b>FINAL SCORE</b>	<b>RESULT</b>
1.	MESHAM	NITIN	91,30/100	Position with scholarship

D.M. 352/2022 - Scholarships co-funded by Companies

**Study of CO2 sequestration systems on thermal and MCI machines and implementation of solutions for carbon dioxide methanation with a view to energy transition. and H2 as a tool for sustainable power generation**

	<b>SURNAME</b>	<b>NAME</b>	<b>FINAL SCORE</b>	<b>RESULT</b>
1.	GIUSTI	EMANUELE	90,70/100	Position with scholarship

D.M. 352/2022 - Scholarships co-funded by Companies

**Study and Development of Micro-CAES Systems for Off-Grid Applications**

	<b>SURNAME</b>	<b>NAME</b>	<b>FINAL SCORE</b>	<b>RESULT</b>
1.	TUMMINELLO	DARIO	88,80/100	Position with scholarship

D.M. 352/2022 - Scholarships co-funded by Companies

**Pressure gain combustion for efficiency improvement in gas turbines**

	<b>SURNAME</b>	<b>NAME</b>	<b>FINAL SCORE</b>	<b>RESULT</b>
1.	TEMPESTI	CLARETTA	92,35/100	Position with scholarship

D.M. 352/2022 - Scholarships co-funded by Companies

**Development of innovative approaches for the control of pollutant, noise and CO2 emissions in heat engines for motorbike applications**

	<b>SURNAME</b>	<b>NAME</b>	<b>FINAL SCORE</b>	<b>RESULT</b>
1.	ANTICAGLIA	ALESSIO	93,30/100	Position with scholarship

D.M. 352/2022 - Scholarships co-funded by Companies

**Development of models for techno-economic assessments of coupling renewable energy and energy storage systems**

	<b>SURNAME</b>	<b>NAME</b>	<b>FINAL SCORE</b>	<b>RESULT</b>
1.	TRAVAGLINI	RICCARDO	91,30/100	Position with scholarship
2.	GALLI	CLAUDIO	83/100	Eligible

D.M. 352/2022 - Scholarships co-funded by Companies

**Development of integrated power generation systems based on the combined use of H2 from renewable sources**

	<b>SURNAME</b>	<b>NAME</b>	<b>FINAL SCORE</b>	<b>RESULT</b>
1.	GALLI	CLAUDIO	86/100	Position with scholarship
2.	TRAVAGLINI	RICCARDO	85,30/100	Eligible
3.	MAHMOOD	MUHAMMAD ATIF	68,70/100	Eligible

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**Development of advanced fluid-structure interaction calculation solutions by creating ANN systems for defining optimal geometry on multi-physics domains**

	<b>SURNAME</b>	<b>NAME</b>	<b>FINAL SCORE</b>	<b>RESULT</b>
1.	DEIANA	GIULIO	88/100	Position with scholarship

D.M. 352/2022 – Scholarships co-funded by Companies

**Development of advanced solutions for the thermal management of turbomachinery operating with unconventional fluids**

	<b>SURNAME</b>	<b>NAME</b>	<b>FINAL SCORE</b>	<b>RESULT</b>
1.	SETTIMELLI	LORENZO	91,70/100	Position with scholarship
2.	BROCCHI	SOFIA	88,20/100	Eligible

D.M. 352/2022 - Scholarships co-funded by Companies

**Development, validation and application of virtual sensors for real-time monitoring of gas turbine operations**

Not assigned
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Florence, 29<sup>th</sup> September 2022