

CURRICULUM VITAE



PERSONAL INFORMATION

Name	ELENA BASSOLI
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Nationality	Italiana
Date of birth	02 -05- 1974

WORK EXPERIENCE

Dates	Since January 2020
Role	Full Professor in Technology and Manufacturing Systems at the University of Modena and Reggio Emilia, Department of Engineering "Enzo Ferrari".
Main activities	In charge of the following courses: Manufacturing Technology (Degree in Mechanical Engineering), Computer Aided Manufacturing (Master Degree in Mechanical Engineering), Additive Manufacturing (Master Degree in Mechanical Engineering and in Automotive Eng.), Manufacturing and Assembly Technologies (Interuniversity Master Degree in Advanced Automotive Engineering, Motorvehicle University of Emilia Romagna, administrative headquarters at Modena and Reggio Emilia University) Delegate of the Department for the reception of disabled and SLD students. Responsible for the third mission activities of the Department. Contract with the EC as Expert Evaluator for the calls for proposals "HORIZON-CL4-2021-TWIN-TRANSITION-01, HORIZON-CL4-2021-RESILIENCE-01"
Dates	Since September 2017
Role	Scientific Director of the Metal Additive Centre of HPE COXA Srl (Modena, Italy).
Dates	2015-2019
Role	Associate Professor in Technology and Manufacturing Systems at the University of Modena and Reggio Emilia, Department of Engineering "Enzo Ferrari".
Dates	2016-2019
Role	Coordinator of the DREAM project, Horizon 2020- FOF13 2016.
Dates	2016-2019
Role	Member of the Board of Management of the University of Modena and Reggio Emilia
Dates	Since 2008
Role	Member of the scientific Board of CIRTIBS (Interuniversity Research Centre on Innovative Technologies for Instrumentation) in Naples
Dates	2007-2011

Role	In charge of the research collaboration between the manufacturing group (ING-IND/16) of the Department of Mechanical and Civil Engineering and the X-AT Centre (Exeter Advanced Technologies) of Exeter University (UK).
Dates	2005-2015
Role	Researcher in Technology and Manufacturing Systems at the University of Modena and Reggio Emilia, Department of Mechanical and Civil Engineering (Dept. of Engineering "Enzo Ferrari" since 2012).

EDUCATION AND TRAINING

Date	A.A. 2001/2002 – 2003/2004
Institution	University of Modena and Reggio Emilia
Title	Ph.D. in Materials Engineering
Thesis	"Innovative technologies for the development and production of non-conventional tools"
Date	2000
Institution	Università di Modena e Reggio Emilia, Facoltà di Ingegneria
Title	Degree in Materials Engineering achieved at the University of Modena and Reggio Emilia with full marks

PERSONAL SKILLS

MOTHER TONGUE	Italian
OTHER LANGUAGES	English , fluent French , basic

TECHNICAL SKILLS	Excellent knowledge of MICROSOFT WINDOWS operating systems and OFFICE applications. Modeling software: VISI CAD-CAM 3D Statistical data processing software: Statistica (StatSoft) Software for the management of SEM images and spectra from EDX microanalysis: INCA Knowledge of statistical tools for data analysis and Design of Experiments. Great experience in the use of scientific instruments and for technological tests, including: electron, ion and atomic force microscopy, X-ray microanalysis, X-ray diffraction and confocal profilometry
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RELATIONAL SKILLS	Good predisposition to team work, excellent organizational skills, rapid learning ability, strong practical sense.
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BIBLIOMETRIC PERFORMANCE	articles in the last 10 years: 33 citations in the last 15 years: 592 H-index calculated through the last 15 years: 14
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RESEARCH

The research involves a number of aspects related to manufacturing technologies and systems, with a focus on additive manufacturing applied to innovative materials, but also to non-conventional processes. In all the areas addressed, the activity has always been characterized by an approach in which the study of the macroscopic performance of the process is integrated with the understanding and modelling of the mechanisms that regulate it at a microscopic scale. This methodology was built through extensive knowledge and direct use of micro-nano scale instrumentation and analysis techniques. Electron, ion and atomic force microscopy, X-ray microanalysis, X-ray diffraction and confocal profilometry are some examples. Since the early years, the activity has included a constant collaboration with the research group in Manufacturing Technology of the Department of Production Systems and Economics of Politecnico di Torino. There has been a strong propensity for research collaborations, which has first translated into contacts with groups of the same sector at other universities involved in the CIRTIBS (Interuniversity Research Centre on Innovative Technologies for Instrumental Goods), then in multidisciplinary research with groups of different cultural extraction, such as the medical and mathematical fields. In recent years, these experiences have been put to good use by establishing international collaborations with the University of Exeter (UK), Loughborough University (UK) and the Federal Technological University (Brazil). In the last years, the experience in the field of additive metal construction has been specified on the aspects of fatigue life, in collaboration with leading players in the industry such as EOS GmBH, Poly-shape and Ferrari GES. In this context, a specific research group, RAM (Research group on Additive Manufacturing), has been set up, involving the two locations of the University of Modena and Reggio Emilia, the University of Parma and the Polytechnic University of Marche. The framework described led to the important result of the approval of the project Driving up Reliability and Efficiency of Additive Manufacturing (DREAM), Horizon 2020- FOF13 2016, which sees the undersigned coordinator of the entire project.

SELECTED PROJECTS

- H2020 – FOF13-2016 Photonics and laser-based production. Anno di finanziamento: 2016. Project: "Driving up Reliability and Efficiency of Additive Manufacturing (DREAM)". Funding: 3,3 M€. Role: coordinator

- H2020 - FORTISSIMO2-2016 project: "Additive Manufacturing Process Simulation for metal components". Funding: 43.813 €. Role: head of a research unit

- EX-SITU REGENERATIVE BIOLOGY OF GLANDULAR PARENCHYMAL ORGANS: THE MODEL OF THE ORGANOMORPHIC SKELETON" (Scientific Coordinator: Prof. Roberto Toni - Prot. 2008ZCCJX4_004). Subproject: "Production of a three-dimensional biodegradable and organomorphic scaffold for the growth and differentiation of the cells of human thyroid". Role: researcher

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Date: 15/05/2024

