

## PERSONAL INFORMATION



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POSITION  
PREFERRED JOB  
STUDIES APPLIED FOR

Postgraduate  
Chemist/Laboratory assistant  
Chemistry

Date of birth 14/12/1985 | Nationality Italian

## PROFESSIONAL SKILLS

From 3 November 2014 until 3  
November 2015

**Employer: Cytec Industries Italia**  
**Aerospace Materials R&D, Pozzuoli (NA), Italy**

**Position: Associate Technologist / Laboratory technician**

Main job consists in supporting COCET Italian funded project aimed to develop fire retardant composite materials for Aerospace application.

### Main tasks:

- Support Literature review/Patent survey on flame retardant additives for thermoset matrix suitable for Aerospace
- Epoxy resins, fire retardant investigation study for structural composites
- Fire characterization: cone calorimeter, FST tests, UL94 and LOI tests.
- Nanofiller dispersion and epoxy matrices preparation using the following instrumentations: glove box, water/oil bath, overhead stirrers, tri roll mill, oven, vacuum-oven.

### Other laboratory activities:

- Composites and resin plaques manufacturing (curing processes, cutting/trimming and polishing)
- Optical microscopy: nanofillers dispersion, 3D composite architecture analysis
- Thermal and electrical conductivity tests on resin plaques and composite samples.

### Main responsibilities:

- Laboratory consumables purchasing
- Laboratory housekeeping
- Improving laboratory capabilities in compliance with company safety requirements.
- Executing laboratory activities with high focus on nanomodified resins preparation
- Support document preparation on project results: reports, deliverables, attendance to recurring project meetings

Field: Materials for Aerospace

From 5 March to the 1st August  
2014

**Employer: CIRA – Italian Aerospace Researcher Center, Capua (CE), Italy**

**Position: Stage as chemical laboratory Technologist**

Main role consists in supporting CIRA research projects on ablative materials within the chemical and composite characterization CIRA laboratories. Project was related to composite materials used in the aerospace field to realize thermal protection systems for re-entry conditions.

**Main laboratory activities:**

- Ablative nano- and micro-composites formulation, with low viscosity phenolic resin and various fillers: Fumed silica, carbon black and pumice;
- Resin plaques manufacturing using sonication and vacuum oven;
- Thermal characterization of the nano- and micro-composites through Thermogravimetric Analysis (TGA) in severe conditions (ramp rate up to 500°C/min);

**Field:** Materials for Aerospace

From January 2013 to July 2013

**Employer: Iapicco & co. - Nocera Inferiore (SA) - Italy**

**Position: Internship as analytical laboratory assistant**

**Main tasks:**

- Executing Water and Food chemical and microbiological analysis using UV-VIS spectroscopy, Gas chromatography, PH-meters, Optical microscopy.

**Field** Analytical chemistry

## EDUCATION AND TRAINING

From 6 September 2013 to 6  
August 2014

### Master in Composite Materials

Training School: IMAST ( Technological District on Polymeric Material  
Engineering Composite and Structures) – Naples (IT)

#### Technical base skills:

- Mechanical, rheological and thermal properties characterization techniques for polymeric materials and composites.
- Synthesis of new polymeric materials and composite formulations with tailored performance

#### Specialization:

- Characterization of materials and composites behavior in fire condition (cone calorimetr, NBS chamber, flammability tests)
- Synthesis of polymeric materials and composites with enhanced thermal properties;
- Modelling of resin combustion and reaction to fire;

#### Soft Skills and Managerial-Economic Skills

- Project management and economical analysis tools;
- Team work and criteria for effective communication

*Main teachers:* Prof. G. Camino (Politecnico of Torino), Prof. A. Fina (Politecnico of Torino), Prof. A. Frache (Politecnico of Torino), Prof. G. Guerra (University of Salerno), Prof.ssa M.R. Nobile ( University of Salerno), Prof.ssa C. Di Blasi (University of Napoli Federico II), Dott.ssa M.G. Pastore Carbone (University of Napoli), Prof. G. Mensitieri (University of Napoli Federico II), Dott. D. Alfano (Cira-Capua), Ing. F. De Nicola (Cira-Capua), Dott. P. Vollaro (Imast scarl), Ing. S. De Nicola (Cytec), Prof. S. Iannace (CNR-Portici), Prof.ssa L. Verdolotti (CNR-Portici).

From 31 March 2009 to 26  
October 2012

### Chemical Sciences (Master Degree) Mark 110/110

Training School: University of Naples Federico II - Italy

- Thesis work title: *Synthesis and characterization of TGF- $\beta$  growing factors peptide analogues.*

Implementation of the following techniques: peptide synthesis in solid phase, biomolecule NMR Spectroscopy, generation of molecular models from NMR data thanks to specific programs CYANA, AMBER, PYMOL, MOLMOL;

I've studied more specifically: Structural and Functional Proteomics, Bioinformatics, Nuclear Magnetic Resonance Spectroscopy, Environmental Physical Chemistry and Macromolecular Chemistry

*Main teachers:* Prof. L. Paolillo, Prof.ssa G.D'Auria, Prof.ssa L. Falcigno, Dott.ssa L. Calvanese, Prof. P. Giardina, Prof. F. Salvatore, Prof. A. De Renzi, Prof. F. Ruffo, Prof. M. Parrilli, Prof. L. Mazzarella, Prof. A. Vergara, Prof. De Rosa, Prof. M. Causà, Prof. P. Pucci, Dott. M. Ruvo.

From October 2004 to 27 March  
2009

## Chemical Sciences (Bachelor Degree)

Mark 110/110

Training School: University of Naples Federico II - Italy

- Thesis work title: Native and modified cyclodextrines' inclusion complexes in aqueous solution. A calorimetric study at 298 K.

Implementation of the following techniques: Isothermal calorimetry and elaboration of data to obtain thermodynamic parameters.

I've studied more specifically: Electrochemistry, Biological Physical Chemistry, Homogeneous and Heterogeneous Catalysis, Principles and some aspects of Green Chemistry

From September 1999 to July  
2004

## Linguistic High School

Mark 100/100

Liceo Classico G.B. Vico, Nocera Inferiore (SA) - Italy

## PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	Excellent	Excellent	Excellent	Excellent	Excellent
PET Certification (Cambridge ESOL)					
French	Excellent	Excellent	Intermediate	Intermediate	Intermediate
German	Elementary	Elementary	Basic	Basic	Elementary

## Organisational / managerial skills

- Ability to work in team
- Recognition and accomplishment of the aims of the tasks
- Daily priority management
- Ability to perform multiple tasks simultaneously
- Exception handling the procedure
- Continuous research and propensity to update task
- Definition of future aims in relation to business strategy
- Establish credibility
- Activities: Participation in Amnesty International Events, Active participation in some catholic groups (Azione Cattolica, Gioventù Francescana), Active participation in groups in defence of the common good (water, environment, waste), Voluntary work in a fair-trade shop, Voluntary work in kennels (Participation to zoophile association), Voluntary work on children assistance, Voluntary work in some soup kitchens.

## Job-related skills

- Use of chemical and characterization laboratory instruments: Oven and vacuum oven, 3-roll milling, Glove box, Mechanical mixers, Microscopy, Flammability equipment, cone calorimeter, TGA, DSC, sonicators, HPLC, Automatical Synthesizers, UV-vis Spectrometers, LC/MS Spectrometers, Spin Cycle, Liofilizetors, NMR Spectroscopy and related software (CARA, CYANA, AMBER, PYMOL, MOLMOL), Isotherm calorimeter, Instruments for SPR experiments (Biacore 3000).
- Knowledge of the REACH and CLP regulations on chemicals .
- Knowledge of ' FDA GMP
- Confident with HSE management systems

## Communication skills

Good communication skills reinforced by voluntary work experience. Excellent team skills. High motivated and interested on innovative materials and chemical laboratory techniques and methods.

## Computer skills

EIPASS 7 MODULES compute licence  
Operative Systems Windows, Linux ( Ubuntu, Mint, Fedora distributions),  
Microsoft Office

## Driving licence

B

## Personal Data

I authorize the treatment of my personal data accordind to the D.Lgs. 196/2003.

