

Curriculum vitae

PERSONAL INFORMATION



Andrea Bede

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Date of birth 02/01/1991 | **Nationality** Romanian

EDUCATION AND TRAINING

01/10/2014–Present

PhD in Materials Engineering

Technical University of Cluj-Napoca, Cluj-Napoca (Romania)

- Thesis title: The effects of SiO₂ nanoparticles on the hydration process and the properties of cement based materials, supervisor Prof. Dr. Fiz. Ardelean Ioan

01/10/2012–Present

Master of Science in Advanced Techniques in Environmental Protection

Technical University of Cluj-Napoca, Cluj-Napoca (Romania)

- Master thesis title: Studies on the impact induced by the working environment on the quality of the technological process and worker health and safety in a heavy lifting and transport company, supervisor S.I. Dr. Ing. Simona Avram

17/02/2014–17/06/2014

Erasmus student

VSJ Technical University of Ostrava, Ostrava (Czech Republic)

- Environmental policy, worker health and safety.

10/2009–07/2012

Bachelor in Environmental Sciences

Babeş-Bolyai University, Faculty of Environmental Sciences, Cluj-Napoca (Romania)

- Bachelor's thesis title: Sustainable development and environmental responsibility in the hotel industry in Cluj-Napoca, supervisor Lect. Dr. Badarau Alexandru

26/01/2012–31/03/2012

Dekeyser&Friends Academy Alumna

Dekeyser&Friends Academy, Hamburg (Germany)

- Education for sustainable development, green living, outdoor and hands-on learning, project management;
- Communication & presentation techniques, strategic thinking & planning.

15/06/2010–27/08/2010

CEEPUS student

Wroclaw University of Life Sciences - Faculty of Food Science - Department of Animal Products, Wroclaw (Poland)

- Operating laboratory equipment for chemical extractions; gas chromatography and mass spectrometry analysis of extracts (GC-MS).

09/2005–06/2009

High School Graduate

Colegiul Național "Mihai Viteazul", Sfântu Gheorghe (Romania)

Emphasis on sciences and intensive English courses.

WORK EXPERIENCE

13/12/2013–Present

Freelance writer

Upwork.com, International

Article writing and copywriting on various topics, based on scientific literature research.

08/04/2013–26/04/2013

Quality Department Intern

S.C. Prodvalco S.A., Cluj-Napoca (Romania)

- International quality and food safety standards (ISO 9001:2008, HACCP, IFS);
- Quality checks on the filling lines; quality reception of raw materials following the procedures.

PERSONAL SKILLS

Mother tongue(s)

Romanian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C1	C1	C1	C1
European Certificate of Language Ability in English					
French	B2	C1	B2	B2	C1
Spanish	B2	B2	B2	B1	B2
Hungarian	B1	B1	B1	B1	A2

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user
 Common European Framework of Reference for Languages

Communication skills

- Excellent writing skills in both Romanian and English, in formal and informal language;
- Storytelling and article writing; public speaking; logical argumentation and rhetoric; active listening.

Job-related skills

- good command of cement chemistry and of its hydration stages;
- precision and care in sample preparation and handling;
- good command of methods utilised in NMR relaxometry experiments (FID, CPMG);
- good command of Origin and Matlab software for data interpretation and representation (Inverse Laplace, multiexponential analysis of data sets);
- experience with NMR diffusometry and FFC (Fast Field Cycling) techniques;

Digital competence

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Proficient user	Proficient user	Independent user	Proficient user	Proficient user

Digital competences - Self-assessment grid

- good command of Microsoft Office tools (Word, Access, Excel, PowerPoint);
- good command of Mendeley reference manager;
- good command of Adobe Photoshop, Illustrator, Lightroom and InDesign and their open source counterparts Gimp and Inkscape for text and image processing and setting, as well as photo, audio and video editing;

- good command of online sharing and communication tools.

ADDITIONAL INFORMATION

Publications

- [A. Bede](#), A. Pop, M. Moldovan, I. Ardelean, The Influence of Silanized Nano-SiO₂ on the Hydration of Cement Paste: NMR Investigations, *AIP Conf. Proc.* 1700 (2015)
- A. Pop, [A. Bede](#), M.C. Dudescu, F. Popa, I. Ardelean, Monitoring the influence of aminosilane on cement hydration via low field NMR relaxometry, *Appl. Magn. Reson.* (2015), doi: 10.1007/s00723-015-0743-7
- [A. Bede](#), A. Pop, M. Moldovan, I. Ardelean, The effect of silanized SiO₂ nanoparticles on the hydration of Portland cement paste – Studiul efectelor nanoparticulelor de SiO₂ silanizate asupra hidratării pastei de ciment Portland, *Acta Tech. Napocensis, Ser. Environ. Eng. Sustain. Dev. Entrep.* (2015)
- [A. Bede](#), A. Scurtu, I. Ardelean, NMR relaxation of molecules confined inside the cement paste pores under partially saturated conditions, *Cement and Concrete Research* (2016) (submitted)

Conferences

- [A. Bede](#), A. Pop, I. Ardelean, NMR investigations of the influence of silanized silica nanoparticles on the hydration of cement paste - Processes in Isotopes and Molecules Conference, 23-25 September 2015 Cluj-Napoca - poster presentation
- [A. Bede](#), A. Pop, I. Ardelean, Relaxometry and other studies on cement pastes with silica nanoparticles - oral presentation at the Alpine NMR Workshop in Hirschegg, Sep 19-22, 2015

Projects

- The Butterfly Garden Project - project manager - Oct. 2012 to present
- Engage in Conservation Project - Dekeyser&Friends Academy Fellow Jan. 2012 - Apr. 2012
- Volunteering: film and music festivals & other events: TIFF 2012 & TIFF 2013 Cluj-Napoca, Comedy Cluj 2012 festival, Electric Castle Festival 2013, Peninsula Felsziget Festival 2013, Festivalul de colinde Adolescent 2006-2008