



Europass Curriculum Vitae

Personal information

First name(s) / Surname(s) **SBARCEA BEATRICE GABRIELA**
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Nationality Romanian
Date of birth 22/06/1980
Gender female

Employment/ Occupational field **National Institute for R&D in Electrical Engineering ICPE-CA Bucharest
Laboratory for Electrical Materials and Products Characterization (CIMPE)/
research**

Work experience

Dates	2010-present
Occupation or position held	Junior researcher
Main activities and responsibilities	Researches in the field of characterization of metallic, ceramic and carbon materials specific of electrical engineering using a large area of characterization techniques: X-ray diffraction, Optical Microscopy, determination of physical properties: methods for density, granulometry, conductivity, micro-hardness measurement
Name and address of employer	National Institute for Research & Development in Electrical Engineering ICPE - Advanced Research Bucharest, Splaiul Unirii, no. 313, zip code 030138
Type of business or sector	Research and Development
Dates	2007-2010
Occupation or position held	Assistant junior researcher
Main activities and responsibilities	Researches in the field of characterization of metallic, ceramic and carbon materials specific of electrical engineering using a large area of characterization techniques: X-ray diffraction, Optical Microscopy, determination of physical properties: methods for density, granulometry, conductivity, micro-hardness measurement
Name and address of employer	National Institute for Research & Development in Electrical Engineering ICPE - Advanced Research Bucharest, Splaiul Unirii, no. 313, zip code 030138
Type of business or sector	Research and Development
Dates	2006-2007
Occupation or position held	Physics teacher
Main activities and responsibilities	Theaching physics lesson
Name and address of employer	High School Azuga
Type of business or sector	Education

Education and training

Dates	2009-present
Title of qualification awarded	PhD-student
Principal subjects/occupational skills covered	Post-graduate studies in materials science field, Characterization of transparent conductive oxide thin films
Name and type of organisation providing education and training	"Politehnica" University of Bucharest, Faculty of Applied Chemistry and Material Science
Level in national or international classification	Post-graduate studies
Dates	2006-2008
Title of qualification awarded	Master degree in Biophysics and Medical Physics
Principal subjects/occupational skills covered	Biophysics and Medical Physics specialization, thesis: "Lipid films analysis using X-ray diffraction".
Name and type of organisation providing education and training	University of Bucharest, Faculty of Physics
Level in national or international classification	Post-graduate studies
Dates	2002-2006
Title of qualification awarded	B.A. Medical Physics
Principal subjects/occupational skills covered	Medical Physics specialization, thesis: "Treatment plan in radiotherapy"
Name and type of organisation providing education and training	University of Bucharest, Faculty of Physics
Level in national or international classification	University education

Personal skills and competences

Mother tongue(s) **Romanian**

Other language(s) **English, French**

Self-assessment
European level ()*

English

French

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
B1	Independent user	B1	Independent user	B1	Independent user	B1	Independent user	B1	Independent user
B1	Independent user	B1	Independent user	B2	Independent user	B2	Independent user	B2	Independent user

(*) [Common European Framework of Reference for Languages](#)

Social skills and competences
Experience of working in team
Good communication skills

Organisational skills and competences
Project Responsible (2008 – 2009) at 2 national research projects
Participant (2007 – 2010) at over 20 national research projects

Technical skills and competences
Ability to use complex characterization techniques:
X-ray diffraction, Optical Microscopy, Hardness testing
Good knowledge of control and quality assurance / certification

Computer skills and competences
A good familiarity with instruments Microsoft Office (Word, Excel, Power Point),
Elementary knowledge of application Origin, Adobe Photoshop

Other skills and competences

- PhD research stage :

April 2011 – July 2011 - Institute of Applied Physics, Linz, Austria, regarding: Preparation of transparent conductive oxide thin films using Pulsed Laser Deposition technique (PLD). Characterization with X ray diffraction, Ellipsometry, UV-VIS Spectrometry, Atomic Force Microscop

- Training in the field of X ray diffraction:

June 23-27 2008 - DIFFRAC plus Basic course, Karlsruhe, GERMANY

July 25-28 2011 – DIFFRAC plus Leptos - Stress and Texture course, Karlsruhe, GERMANY

October 24-28 2011 - DIFFRAC plus Topas - Rietveld course, Karlsruhe, GERMANY

Additional information

Annexes