



## Europass Curriculum Vitae

### Personal information

First name / Surname **Andra Mihaela / Predescu**  
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Nationality Romanian  
Date of birth 16.12.1982  
Gender Female

### Occupational field **Research Assistant**

#### Work experience

Dates **From October 2007 – present**  
Occupation or position held Research Assistant  
Main activities and responsibilities Participation and execution of some national and international projects from environmental field, characterization and monitoring of environmental factors: water, soil and wastes  
Internal Auditor at Ecometallurgy Laboratory - Center for Research and Eco-Metallurgical Expertise  
Name and address of employer POLITEHNICA University of Bucharest, Faculty of Material Science and Engineering, Center for Research and Eco-Metallurgical Expertise 313, Splaiul Independentei, 6 District, Bucharest, Romania  
Type of business or sector Research  
**From June 2005 - December 2005**  
Customer Service Representative  
Connex – Vodafone Romania

#### Education and training

Dates **From October 2007 – July 2012**  
Title of qualification awarded Ph. D.  
Principal subjects/occupational skills covered “Researches regarding the preparation and using of advanced materials for waste water treatment” -  
Synthesis and characterization of nanomaterials  
Application of nanomaterials for environmental field  
Name and type of organisation providing education and training POLITEHNICA University of Bucharest - Faculty of Material Science and Engineering  
Level in national or international classification ISCED - 8  
**From September to December 2009**  
Postgraduate course, Safety and Health Specialist (SHS)  
Risk assesement and injury of occupational diseases  
Petrosani University, Faculty of Mine

ISCED – 8

**From October 2007 to October 2009**

Master Diploma

Master “International Bussiness Administration” in german language

POLITEHNICA University of Bucharest, Engineering Faculty in Foreign Languages – german department

ISCED - 7

**From March to September 2007**

Diploma work

Institute for Microtechnology

Technical University of Braunschweig, Germany

ISCED - 6

**From October 2001 to September 2007**

Engineer Diploma

Engineering Faculty in Foreign Languages – german department

Politehnica University of Bucharest

ISCED - 6

**From March to April 2009**

Course “Inspector for Work Security”  
Protem SSM Consulting, Bucharest

**February 2009**

Training course “Introduction in X-ray Fluorescence”,  
Bruker AXS, Karlsruhe, Germany

**May 2006**

Training course “Success in business with germans and austrians”  
TwCon SRL, Bucharest

**September 2004**

Course “Creation WEB pages (Corel Draw, HTML, JAVA SCRIPT)”  
Insitute for Informatics and Account Techniques, Bucharest

**From December 2003 to January 2004**

Course “Assistant Manager”  
Politehnica University of Bucharest

**Personal skills and competences**

Mother tongue

Other languages

Self-assessment

European level (\*)

**Romanian**

English

German

French

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
C2	Proficient user	C1	Proficient user	C1	Independent user	C2	Independent user	C1	Proficient user
C2	Proficient user	C2	Proficient user	C1	Independent user	C1	Independent user	C1	Proficient user
C1	Independent user	C1	Independent user	C1	Independent user	C1	Independent user	C1	Independent user

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

Social skills and competences	<ul style="list-style-type: none"> <li>- team spirit gained by working with people having different qualifications;</li> <li>- good ability to adapt to multicultural environments, gained through my work experience with young people, students and post-graduated students and also by research activities;</li> <li>- good communication skills gained through my experience as teacher.</li> </ul>
Organisational skills and competences	<p><u>Competences as Internal Auditor</u></p> <ul style="list-style-type: none"> <li>- Assessment of laboratory activity through internal audit achievements,</li> <li>- Periodical testing of laboratory employers.</li> </ul> <p>These competences were gained by participation at the following courses:  March 2008: Graduated course: Requirements for internal audit according to SR EN ISO 19011 / 2003 specific for laboratories, Organization: Romanian Accreditation Association (RENAR)  Qualification: <i>Internal Auditor for Quality and Environment System</i></p> <p>Member of Organization Staff for some national symposium:</p> <ul style="list-style-type: none"> <li>- ROMAT Junior 2008 – National symposium of young researchers in the material field</li> <li>- GEPROPOL 2007, 2009 – Generation, prevention and pollutant processing Symposium</li> </ul>
Technical skills and competences	<ul style="list-style-type: none"> <li>- Good skills in <i>working with various analytical equipment</i> including techniques such as: atomic absorption spectrometry, UV-vis spectrometry, X-ray fluorescence.</li> </ul> <p>Some of the competences were gained by attending the following courses:</p> <ul style="list-style-type: none"> <li>- Good command of <i>quality control processes</i> as Internal Auditor in the Ecometallurgical Laboratory. The competence was also gained by participation at several courses as:</li> <li>- Good ability in evaluation of safety and health processes at work by attending at course: Health and Safety in Work, Organization Protem SSM Consulting SRL, March 2009</li> <li>- Activities regarding fundamental and applied research in the field: <ul style="list-style-type: none"> <li>- environmental expertises regarding the quality of water and soil</li> <li>- material expertises regarding the possible use of some sub-products as raw materials for decontamination processes</li> <li>- environmental monitoring for water pollutant and statistical analysis</li> <li>- new technologies for removal of some toxic compounds from water-soil systems by synthesis and characterization of a new magnetic nano-iron oxides used as adsorbents</li> </ul> </li> </ul>
Computer skills and competences	Microsoft – Word, Excel, Power Point, Outlook, C ++, operare sisteme Windows 95 / 98 / ME / 2000 / NT / XP / Vista
Driving licence	Driving licence category B, since 2007
<b>Additional information</b>	➤ Member of the Romanian Society of Metallurgy (SRM, 2007)
<b>Annex</b>	List with the most relevant papers (ISI –quoted) and books

## Annex

### List of the most relevant papers (ISI –quoted)

1. Ecaterina Matei, **A. M. Predescu**, E. Vasile, C. Predescu – **Investigations on nano-iron oxides properties used for different industrial applications**, Optoelectronics and Advanced Materials – Rapid Communications, Vol. 5, Issue 3, March 2011, p. 296 – 301
2. Avram Nicolae, Cristian Predescu Ecaterina Matei, **Andra Stoica** - **About the Mechanism of the Pelletizing Processes of the Powdery Materials for Sintering Agglomeration**, Journal of Iron and Steel Research International, Vol 16, p. 139-143, October 2009
3. **A.Predescu**, Ecaterina Matei, Cr.Predescu – „*Nanofiltration methods for removal of some organic compounds from waste waters*” - în Proceedings of The 3<sup>rd</sup> WSEAS International Conference on Waste Management, Water Pollution, Aer Pollution, Indoor Climate (WWAI 09) Tenerife, Spain, July 01 – 03, 2009, pag. 442-446, ISBN 978-960-474-093-2; ISSN 1790-5095.

### List of the most relevant books

1. C. Predescu, Ecaterina Matei, **Andra Stoica**, et al – „Echipamente pentru epurarea efluenților metalurgici”, Ed. Printech, 2010, ISBN 978-606-521-502-3.
2. **Andra Predescu**, ș.a. - „Caracterizarea poluanților metalurgici”, București, Ed. Printech, 2007, ISBN 978-973-718-858-8.

### Projects:

1. Modalități de valorificare a nămolurilor provenite din deșeuri biodegradabile”, Contract PN2 nr. 32-105/2008, responsabil proiect UPB.
2. “ Tehnologii neconvenționale de înalta precizie pentru creșterea durabilității robinetilor cu aplicații în industria petrolieră “, Contract PN 2, nr 71-076/2007.
3. “Metodă nouă neconvențională de evaluare în situ a contaminării solurilor cu metale grele”, Contract PN2 nr 32-118/2007, responsabil proiect UPB.
4. “Consolidarea infrastructurii Laboratorului de Ecometalurgie din Universitatea Politehnica din București pentru caracterizarea și expertizarea materialelor și deșeurilor industriale”, contract de finanțare nr. CP / I / 14.09.2007, PN2 - CAPACITĂȚI.
5. “Dezvoltarea laboratorului de eco-metalurgie pentru determinarea unor substanțe prioritare periculoase din factorii de mediu”, contract nr.106 / 2006, UPB-CCEEM – RENAR (Program CeEx, Modulul IV).
6. “Extinderea Laboratorului de Ecometalurgie pentru determinarea compușilor organici și a metalelor grele din factori de mediu și deșeuri de echipamente electrice și electronice”, contract nr.3 / 2005, UPB-CCEEM – RENAR (Program CeEx, Modulul IV).