

# Curriculum Vitae

## Personal information

Surname(s) / First name(s)

Address(es)

Telephone(s)

E-mail(s)

Nationality(-ies)

Date of birth

Gender

**Cîrstea, Cristiana Diana**

1, Porumbacu street, 060361, Bucharest, Romania

0040 727 321 976

[diana\\_cirstea@yahoo.com](mailto:diana_cirstea@yahoo.com)

[diana\\_cirstea@icpe-ca.ro](mailto:diana_cirstea@icpe-ca.ro)

Romanian

16.10.1978

Female

## Work experience

Dates

Occupation or position held

Main activities and responsibilities

Name and address of employer

Type of business or sector

Dates

Occupation or position held

Main activities and responsibilities

Name and address of employer

Type of business or sector

Dates

Occupation or position held

Main activities and responsibilities

Name and address of employer

Type of business or sector

Dates

Occupation or position held

Main activities and responsibilities

Name and address of employer

Type of business or sector

### From March 2008 - today

Scientific researcher, Multifunctional Metallic Materials Department

Participation in research activities plan in National Research Programs

Obtaining shape memory materials by powder metallurgy technology

Mechanical characterization of materials (micro/nano hardness, Young modulus, stiffness) and microscratch (adhesion)

INCDIE ICPE – CA, D1.2, Advanced Materials Department

Research and Development

### From May 2007 to February 2008

Assistant researcher, Test, Evaluation And Scientific Research Weapons Systems Department

Scientific research and technological development in vibro-acoustic signals determination for ground combat vehicles.

Military Equipment and Technologies Research Agency, Bucharest, Romania,

[www.acttm.ro](http://www.acttm.ro)

Research and Development

### From November 2004 – May 2007

Physician engineer, Assistant researcher

Computer programs development for implementing the image reconstruction after beam projections for 3D corps

Development of multiparametric acquisition systems – analog digital converter (AD413A CAMAC QUAD 8K) with 4 independent analogical inputs, working in CAMAC standard

“Horia Hulubei”-National Institute for Physics and Nuclear Engineering, Magurele-Ilfov, 407Atomistilor Street, 077125,PO-BOX MG-6, Bucharest, Romania,

[www.nipne.ro](http://www.nipne.ro)

Research and Development

### From June 2004 to September 2004

Physician

Sonometric measurements and data analyse

Environmental Protection Regional Agency, Bucharest, Romania,

[www.arpmb.ro](http://www.arpmb.ro)

Environmental protection

## Education and training

Dates	From 2002 to 2004
Title of qualification awarded	Master with dissertation examination
Principal subjects/occupational skills covered	Meteorology, earths, atmospheric physics and environmental protection
Name and type of organisation providing organisation and training	University of Bucharest, Faculty of Physics
Dates	From 1997 to 2002
Title of qualification awarded	Engineer
Principal subjects/occupational skills covered	Technologies Physics
Name and type of organisation providing organisation and training	University of Bucharest, Faculty of Physics

**See also Annex 1 for education and training**

## Personal skills and competences

Mother tongue(s)

Other language(s)

*Self-assessment  
European level <sup>(\*)</sup>*

**English**

**French**

**Russian**

**Romanian**

Understanding		Speaking			Writing	
Listening	Reading	Spoken interaction		Spoken production		
B2 Independent user	C1 Proficient user	B1 Independent user	B1 Independent user	B1 Independent user	C1 Proficient user	
A2 Basic user	B1 Independent user	A2 Basic user	A2 Basic user	A2 Basic user	B1 Independent user	
A2 Basic user	B1 Independent user	A2 Basic user	A2 Basic user	A2 Basic user	B1 Independent user	

<sup>(\*)</sup> *Common European Framework of Reference (CEF) level*

Organizational skills and competences

Teamwork, capacity for synthesis, decision-making skills acquired within some national and international research projects:

- Project Director (2012-2014) at International Project Dubna „Neutron diffraction study of shape memory alloys”, No. Protocol: 4131-4-2012/2014
- Teamwork at PN II 71-116/2007-2010 „Micro/Nano shape memory alloys”
- Teamwork at PN 06-350202 “The development experimental facilities for advanced analysis”
- Teamwork at-CEX-06-10-82 / 26.07.2006 „Advanced research on the development of a structure to moderate, focus, and accelerate monoenergetic positron beams in the 0.8-50 keV range, for use in detecting vacancy and vacancy cluster –type defects in condensed matter”
- Teamwork at International Project Dubna 2006: Development of the Detection Facility for New Experiments at Nuclotron

Technical skills and competences

Using specific laboratory instrument and equipment gained through laboratory activities performed during my experimental research like processing of shape memory materials by conventional powder metallurgy techniques and mechanical testing by materials and characterization of thin films (Compact Platform with micro/nano heads for micro/nanoindentation and microscratch tests, CSM Instruments)

Computer skills and competences

Microsoft Office tools (Word, Excel, Access, Power Point), , Autocad 14, Origin, MatCalc

### **Additional information**

Contact persons:

Dr.Doina Raducanu, Professor at Faculty of Materials Science and Engineering, Bucharest Polytechnic University  
[doina.raducanu@mdef.pub.ro](mailto:doina.raducanu@mdef.pub.ro)

Dr. Ernst Kozeschnik, Full professor, Institute of Materials Science and Technology, Vienna University of Technology  
[ernst.kozeschnik@tuwien.ac.at](mailto:ernst.kozeschnik@tuwien.ac.at)

### **Annexes**

Annex 1: Education and trainings  
Annex 2: List of publications

**Bucharest**  
11<sup>th</sup> October 2011

**Eng. Cristiana Diana Cirstea**

## Annex 1 Education and trainings

Dates	From June 9 to 11, 2008
Title of qualification awarded	Training course: "Computer-Aided Thermodynamics"
Name and type of organisation providing organisation and training	DGM, European Advanced Training Course, Maria Laach, Germania
Dates	From June 11 to 13, 2008
Title of qualification awarded	Training course: „Simulation of phase transformation"
Name and type of organisation providing organisation and training	DGM, European Advanced Training Course, Maria Laach, Germania
Dates	From August 4 to 8, 2008
Title of qualification awarded	Training course: "Thermodynamic and kinetic simulations with MatCalc"
Name and type of organisation providing organisation and training	Institute of Materials Science and Technology ,Viena, Austria
Dates	From July 24 to 30, 2011
Title of qualification awarded	Participated at 3 <sup>rd</sup> Joint Seminar JINR-Romania on Neutron Physics for Investigation of Nuclei, Condensed Matter and Life Sciences
Name and type of organisation providing organisation and training	Valahia University of Targoviste, Romania , Joint Institute for Nuclear Research, Dubna, Russia,INCDIE ICPE –CA,Targoviste, Romania

11<sup>th</sup> October 2011

Cristiana Diana Cirstea

## Annex 2: List of publications

### LIST OF SCIENTIFIC WORKS

PhD , Cristiana Diana CIRSTEA

**CI. Articles/ studies published in specialized magazines of international recognized Ris noted**

**CI.2. Articles / studies published in specialized journals indexed in international databases**

1. D. Cirstea, M. Lucaci, D. Raducanu, The thermomechanical modeling for shape memory alloys, Materials Science Forum, Vol. 672), pp195-199, Trans Tech Publication, 2011
2. M. Lucaci, M. Valeanu, R. L. Orban, V. Tsakiris, D.C. Cirstea, L. Leonat “ Shape Memory NiTi Alloys Obtained by Powder Metallurgy Route, Materials Science Forum Vol. 672 pp 99-104 ,Trans Tech Publications, (2011)
3. Lucaci, M. Valeanu, D. Patroi, D. Cirstea, S. Mitrea , SMART TI (50-)AL<sub>x</sub>NI<sub>30</sub>CU<sub>20</sub> (X = 1, 3, 6) REINFORCED WITH COHERENT LOW- MISFIT NANOSCALE PRECIPITATES COMPOSITES- publicata in proceedings la The 3<sup>rd</sup> International Conference on Advanced composite materials engineering, COMAT 2010, Brasov, 27-29 octombrie 2010,
4. M.Lucaci, R.Orban, V.Tsakiris, D. Cirstea „*Shape memory alloys for MEMS components made by powder metallurgy processes*”, ESTC 2008 2end Electronic, Systemintegration Technology Conference, Greenwich, London, 1-4 september; IEEE Catalog Number: CFP08TEM-PRT, ISBN:978-1-4244-2813-7, pg. 1241-1244.
5. M. Lucaci, R.Orban, V.Tsakiris, D. Cirstea, „ *Ferromagnetic Fe and Co alloyed NiAl powders*”, MmDE end ROMSC 2008, 16-18 iunie, București, Proceedings of Joint International Conference – Materials For Electrical Engineering, pp. 153 – 158, ISBN 978-606-521-028-8
6. M. Lucaci, R.Orban, V.Tsakiris, D. Cirstea, „*Alloyed NiTi shape memory alloys for MEMS components powder metallurgy processed*”, MmDE end ROMSC 2008, 16-18 iunie, București, Proceedings of Joint International Conference – Materials For Electrical Engineering, pp. 159 – 164, ISBN 978-606-521-028-8
7. M. Lucaci, R.L.Orban, M. Valeanu, V.Tsakiris, D.Cirstea, L.Leonat “*Shape memory alloys based on NiTi made by powders metallurgy techniques*” , International Conference”Biomaterials&Medical Device, BiomMedD 2008, 7<sup>rd</sup> General Meeting of Romanian Society for Biomaterials.
8. M. Lucaci, E. Enescu, P. Lungu, V. Tsakiris, L. Leonat, A. Bratulescu, D. Cirstea- Materiale Metalice stocate de hidrogen, Salonul Cercetarii, 26-28.06.2008, Timisoara
9. M.Lucaci, D. Cirstea, V. Tsakiris, L.Leonat – Materiale cu memoria formei NiTiX, Salonul Cercetării, 7- 11.10.2008, București
10. D.C.Cirstea, S.Buda, F.Constantin „*Data acquisition system*” - Sesiunea de comunicări științifice, Măgurele, mai 2005: Romanian Physics Reports, Vol. 57, No. 3, P. 376-381, 2005

Bucharest  
9<sup>th</sup> October 2011

Eng. Cristiana Diana Cirstea