

# Europass Curriculum Vitae

## Personal information

First name(s) / Surname(s)

**Petrică VIZUREANU**

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peviz@tuiasi.ro; peviz2002@yahoo.com

Nationality

Romanian

Date of birth

17 October 1967

Gender

Male



## Desired employment / Occupational field

**PROFESSOR / DIRECTOR DEPARTMENT  
SCIENTIFIC ADVISOR IN MATERIALS SCIENCE AND ENGINEERING**

## Work experience

Dates

March 1<sup>st</sup>, 1993 – to present

Occupation or position held

PROFESSOR - Higher education teaching professional  
DIRECTOR - Dept. of Technologies and Equipment for Materials Processing

Main activities and responsibilities

Project Manager in R&D activities.  
Teaching activities with post-graduate students.

Name and address of employer

THE "GHEORGHE ASACHI" TECHNICAL UNIVERSITY FROM IASI  
Str. D. MANGERON 67, 700050 IASI (ROMANIA)

Type of business or sector

Education

Dates

April 23<sup>rd</sup>, 2010 →

Occupation or position held

Forensic expert

Main activities and responsibilities

Technical expertises in Technological Equipment field

Name and address of employer

Ministry of Justice, Str. Apolodor, no. 27, Bucuresti, Romania

Type of business or sector

Research / Justice

## Education and training

Dates

15 September 1987 - 15 June 1992

Title of qualification awarded

Mechanical engineer

Principal subjects / occupational skills  
covered

Mechanical engineering, product design, CAD/CAM technics, heating equipment design

Name and type of organisation  
providing education and training

TECHNICAL UNIVERSITY IASI (FACULTY OF MECHANICS)  
D. MANGERON 63, 700050 IASI (Romania)

Dates

01 April 1994 - 18 December 1999

Title of qualification awarded

Ph. D.

Principal subjects / occupational skills  
covered

Materials Science and Engineering / Heating Equipment Assisted by Computer

## Personal skills and competences

Mother tongue(s)

Romanian

Other language(s)

Self-assessment  
*European level (\*)*

**English**

**French**

**German**

**Italian**

**Spanish**

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
C2	Proficient user	C2	Proficient user	C2	Proficient user	C2	Proficient user	C2	Proficient user
C2	Proficient user	C2	Proficient user	C2	Proficient user	C2	Proficient user	C2	Proficient user
B1	Independent user	C1	Proficient user	B1	Independent user	A2	Basic User	B2	Independent user
B2	Independent user	C1	Proficient user	B2	Independent user	A2	Basic User	A2	Basic User
A2	Basic User	A2	Basic User	A2	Basic User	A2	Basic User	A2	Basic User

(\*) [Common European Framework of Reference \(CEF\) level](#)

Social skills and competences

Team work - I have worked in various types of teams from research teams.

I work on the borders between young people, youth trainers, youth policy and researchers, for example running a 4 day congress at International Congress on Materials Science & Engineering during 1994, 1997, 2000, 2002, 2005, 2007 and May 28-31, 2009.

Good communication skills gained through my experience as vice-dean of the faculty.

Intercultural skills - I am experienced at working in a European dimension such as being an expert at the National Science Fund from Bulgaria.

Excellent communication skill.

Positive attitude.

Capacity to listen and taking into consideration other opinions, ideas than the personal ones.

Special qualities for team working.

Availability in action in multicultural media.

Objectivity in perception of human resources.

Capacity to control processes in a group of people.

Organisational skills and competences

Currently responsible for two teams of 25 people in two big national research projects; increased capacity to coordinate the staff.

Skills in conception and achievement of the projects, including project budgets.

Very good experience in logistics - president for faculty auctions for every research contract.

Very good experience in team management and decision capacity.

Proactivity.

Conception capacity.

Diagnosis capacity.

Big organizational capacity.

Developed voluntarism.

Technical skills and competences

Competences:

Permanent Expert AMCSIT Bucuresti, Romania (2004-2010), [www.amcsit.ro](http://www.amcsit.ro)

Expert CNCSIS Romania (2004-2009), [www.cncsis.ro](http://www.cncsis.ro)

Expert CNMP Romania (2007-2008), [www.cnmp.ro](http://www.cnmp.ro)

Expert National Science Fund - Bulgaria (2008-2009), [www.nsfb.net](http://www.nsfb.net)

	<p>Technical skills:</p> <p>Materials characterization</p> <p>Heating systems</p> <p>CAD/CAM technology</p> <p>Solar energy</p> <p>Refractory materials</p> <p>Expert systems</p> <p>Shape memory alloy</p>
Computer skills and competences	Competent with all Microsoft Office programmes, Internet, Windows, Delphi and experience with HTML.
Driving licence(s)	B
<b>Additional information</b>	<p>Books:</p> <ol style="list-style-type: none"> <li>1. Vizureanu, P. – Sisteme termice inteligente, Editura PIM, 2013, 265 pagini, ISBN 978-606-13-1214-6.</li> <li>2. Vizureanu, P. – editor, Advances in Expert Systems, published by Intech, Rijeka, Croatia, 2012, 120 pages, on-line edition, ISBN 978-953-51-0888-7, <a href="http://www.intechopen.com/books/advances-in-expert-systems">http://www.intechopen.com/books/advances-in-expert-systems</a>.</li> <li>3. Vizureanu, P. - editor, Expert Systems for Human, Materials and Automation, published by InTech, Rijeka, Croatia, 2011, 392 pages, on-line edition, ISBN 978-953-307-334-7, <a href="http://www.intechopen.com/books/show/title/expert-systems-for-human-materials-and-automation">http://www.intechopen.com/books/show/title/expert-systems-for-human-materials-and-automation</a>.</li> <li>4. Vizureanu P., Agop M., On the Transport Phenomena in Composite Materials using the Fractal Space-Time Theory, published in Advances in Composite Materials for Medicine and Nanotechnology, ISBN 978-953-307-235-7, publishing date: April 2011, pages 477-494.</li> <li>5. P. Vizureanu - editor, Expert Systems, published by Intech, Vukovar, Croatia, 2010, 238 pages, on-line edition, ISBN 978-953-307-032-2, <a href="http://sciyo.com/books/show/title/expert-systems">http://sciyo.com/books/show/title/expert-systems</a>.</li> <li>6. P. Vizureanu, V. Paun, E. Poll, A. Timofte, M. Agop, Chapter IV: Gauge Gravitational Field in a Fractal Space-Time, edited in The Fractal and its Implications in the Materials Science, editors: M. Agop, P.D. Ioannou, P.E. Nica, V. Paun, Athens University Press, 2008, Greece, ISBN 978-960-92410-1-4, 214 p.</li> <li>7. P. Vizureanu, Experimental Programming in Materials Science, Mirea Publishing House, Moscow, 2006, Russia, ISBN 978-573-390-601-0, 116 p.</li> <li>8. M. Agop, P. Ioannou, P. Vizureanu, Self-Structuring Phenomena in Nature, Athens University Press, 2006, Greece, ISBN 960-631-078-7, 310 p.</li> <li>9. M. Agop, P. Vizureanu, Chapter 19: On the Plasma-Superconducting Tube Interaction: a Theoretical Approach, edited in Particles and Fields, editors: M. Agop și P.D. Ioannou, Athens University Press, 2005, Greece, ISBN 960-92410-0-X, pp.305-310.</li> <li>10. M. Agop, P. Vizureanu, S. Băcăiță, C. Bahrim, Chapter 21: On the Plasma-Superconducting Tube Interaction by Means of the Electrical Double-layers, edited in Particles and Fields, editors: M. Agop și P.D. Ioannou, Athens University Press, 2005, Greece, ISBN 960-92410-0-X, pp.315-324.</li> </ol> <p>Articles:</p> <ol style="list-style-type: none"> <li>1. Dana, D; Sandu, IG; Vizureanu, P; Sandu, I, Study on the Corrosion Resistance of Welded-Brazed Joints, REVISTA DE CHIMIE, Volume: 64, Issue: 12, Pages: 1465-1467, Published: DEC 2013, FI: 0,677</li> <li>2. Dana, D; Sandu, IG; Vizureanu, P; Sandu, I, Metal inert gas welding-brazing technological development and experimental results, JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS, Volume: 15, Issue: 9-10, Pages: 1153-1161, Published: SEP-OCT 2013, FI: 0,563</li> <li>3. Buzea, CG; Bejinariu, C; Boris, C; Vizureanu, P; Agop, M, Motion of free particles in fractal space-time, INTERNATIONAL JOURNAL OF NONLINEAR SCIENCES AND NUMERICAL SIMULATION, Volume: 10, Issue: 11-12, Pages: 1399-1414, Published: NOV-DEC 2009, FI: 5,276</li> <li>4. Nica, P; Vizureanu, P; Agop, M; Gurlui, S; Focsa, C; Forna, N; Ioannou, PD; Borsos, Z, Experimental and Theoretical Aspects of Aluminum Expanding Laser Plasma, JAPANESE JOURNAL OF APPLIED PHYSICS, Volume: 48, Issue: 6, Article Number: 066001, DOI: 10.1143/JJAP.48.066001, Published: JUN 2009, FI: 1,138</li> </ol>

5. Vizureanu, P; Samoila, C; Coffas, D, MATERIALS PROCESSING USING SOLAR ENERGY, ENVIRONMENTAL ENGINEERING AND MANAGEMENT JOURNAL, Volume: 8, Issue: 2, Pages: 301-306, Published: MAR-APR 2009, FI: 1,258
6. I. Nica, V. Rusu, M. A. Paun, C. Stefanescu, P. Vizureanu, A. Aluculesei, Thermal Properties of Nanofilled and Microfilled Restorative Composites, Revista MATERIALE PLASTICE ♦ 46♦ Nr. 4 ♦ 2009, pg. 431-434.
7. C. Popa, P. Vizureanu, I. Casian Botez, C. M. Stoica, A. Nicuta, C. Nejneru, L. Bibire, A. Ghenadi, Theoretical and Experimental Results on the Charge Transport in Plasma Structures Through Spontaneously Symmetry Breaking. New Transport Mechanisms in Composite Materials, Revista MATERIALE PLASTICE ♦ 46♦ Nr. 2 ♦ 2009, pg. 144-148.
8. R. Grimberg, L. Udpa, A. Savin, R. Steigmann, P. Vizureanu, A. Bruma, S. S. Udpa, Remote Field Eddy Current Control Using Rotating Magnetic Field Transducer: Application to Pressure Tubes Examination, RESEARCH IN NONDESTRUCTIVE EVALUATION, Volume 19, Issue 4, October 2008, pages 202 - 218.
9. P. Vizureanu, M. Agop, A theoretical Approach of the Heat Transfer in Nanofluids, MATERIALS TRANSACTIONS, 48 (11): 3021-3023 NOV 2007.
10. C.G. Buzea, M. Agop, G. Galusca, P. Vizureanu, I. Ionita, El Naschie's Superconductivity in the Time Dependent Ginzburg-Landau Model, CHAOS SOLITONS & FRACTALS, 34 (4): 1060-1074 NOV 2007.
11. M. Agop, P. Ioannou, P. Nica, C. Radu, A. Alexandru, P. Vizureanu, Fractal Characteristics of the Solidification Process, MATERIALS TRANSACTIONS, Japan Institute of Metals, vol. 45, No. 3, 2004, pp. 972-975.

National research projects (project manager):

1. Experts Systems for Thermal Systems Programming - PROTHERM, CEEX programme, 2006-2008, 320.000 EUR, <http://www.protherm.tuiasi.ro>.
2. Frontier Research of the Potential Limits Establishing of the Solar Energy Inside the Solids between Heating-Melting Interval - ENERGOSUN, IDEI programme, 2007-2010, 350.000 EUR, <http://www.energusun.tuiasi.ro>.
3. Researches Concerning the Achievement of a New Class of (Al-Cu-Mn) Alloys and the Achievement of a Thermo-mechanical Fatigue Standard Meant for Memory Shape Alloys, X-MEM, PNCDI2 – Parteneriate programme, 2008-2011, 450.000 EUR.

International research projects (team member):

1. Achieving Real Change with Innovative Transport Measures Demonstrating Energy Savings - ARCHIMEDES (Call Identifier FP7-SST-2007-TREN-1\_28june), 2008-2012, 76.800 EUR, Grant agreement no.: 218940.