



## Curriculum vitae Europass

### Personal information

Name / Surname **BUCSE IONELA GABRIELA**  
Address **University of Craiova, Faculty of Mechanics, Department of Engineering and Management of Technological Systems, 1st Calugareni Street, 220037, Drobeta Turnu Severin, Romania**  
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Nationality **Romanian**  
Birth date **October, 10, 1979**  
Gender **F**

### Present job **Universitary lecturer engineer**

**University of Craiova, Faculty of Mechanics, Department of Engineering and Management of Technological Systems, 1st Calugareni Street, 220037, Drobeta Turnu Severin, Romania.**

### Professional experience

Period	<b>2007 - 2013</b>
Occupation or position held	<b>Universitary Assistant engineer</b>
Activities and main responsibilities	Academic and research activity
Employer name and address	<b>University of Craiova, Faculty of Engineering and Management of Technological Systems, Drobeta Turnu Severin, University of Craiova, Romania</b>
Activity type	Higher education
Period	<b>2004 - 2007</b>
Occupation or position held	<b>Universitary preparatory engineer</b>

Activities and main responsibilities | Academic and research activity

Employer name and address | University of Craiova, Faculty of Engineering and Management of Technological Systems, Drobeta Turnu Severin, University of Craiova, Romania

Activity type | Higher education

Period | **2004 - present**

Occupation or position held | Member in 5 projects with national financial support (annexes)

Activities and main responsibilities | Scientific research activity  
 Member in „*Technology and Innovation in Advanced ReseArch of Composites (tiara-C)*” (<http://cis01.central.ucv.ro/proiectecercetare/tiarac/>) and „*Advanced Engineering Group*” (*GIA*) ([www.imst.ro](http://www.imst.ro)), Faculty of Mechanics, Department of Engineering and Management of Technological Systems, University of Craiova, Drobeta Turnu Severin. Tiara-C group focuses on composite materials: metallic or ceramic - based matrix.

Employer name and address | University of Craiova

Activity type | Higher education

Period | **2004 - present**

Activities and main responsibilities | Published scientific papers: 34 (annexes)  
 Laboratory Handbook – 1 (annexes)

Employer name and address | University of Craiova

Activity type | Article publishing and books

### Education and training

Period | **2014**

Title of qualification awarded | Environmental Auditor

Name and type of organization providing education and training | A&C Project Management and Consulting, Drobeta Turnu Severin, Romania

Period | **2013**

Title of qualification awarded | Evaluator Projects

Name and type of organization providing education and training | A&C Project Management and Consulting, Drobeta Turnu Severin, Romania

Period | **2012**

Title of qualification awarded | Evaluator professional competences

Name and type of organization providing education and training | A&C Project Management and Consulting, Drobeta Turnu Severin, Romania

Period | **2011**

Title of qualification awarded | Project Manager

Name and type of organization providing education and training | A&C Project Management and Consulting, Drobeta Turnu Severin, Romania

Period | **2010**

Title of qualification awarded | Formator of Trainers

Name and type of organization providing education and training	Foundation for Education, București, Romania
Period	<b>2010</b>
Title of qualification awarded	Mentor
Name and type of organization providing education and training	Association KOFOED'S School, București, Romania
Period	<b>2010</b>
Title of qualification awarded	Quality Auditor
Name and type of organization providing education and training	Foundation for Education, București, Romania
Period	<b>2009</b>
Title of qualification awarded	PhD in Materials Science and Engineering PhD thesis title: <i>Research regarding the elaboration of ecologic sintered low-alloyed steels based upon nanostructured powders</i>
Name and type of organization providing education and training	University of Craiova, Faculty of Mechanics, Doctoral School „Radu Voinea”, Romania;
Period	<b>2007</b>
Title of qualification awarded	Postgraduate diploma, specialization: MATERIAL ENGINEERING, named also MICRO AND NANOTECHNOLOGY
Name and type of organization providing education and training	University of Craiova, Faculty of Engineering and Management of Technological Systems, Drobeta Turnu Severin, Romania;
Date	<b>2005</b>
Title of qualification awarded	Postgraduate studies, specialization: “Computer Assisted Design”
Name and type of organisation providing education and training	University of Craiova, Faculty of Engineering and Management of the Technological Systems, Drobeta Turnu Severin, Romania
Date	<b>2004</b>
Title of qualification awarded	Graduate diploma, specialization: “Environmental Engineering (Water and Soil Protection Measures),”
Name and type of organisation providing education and training	“Polytechnic” University of Timisoara, Faculty of Hydro technical Engineering, Romania
Date	<b>1998</b>
Title of qualification awarded	Higher Diploma Education
Name and type of organisation providing education and training	“Economic” High School, Dr. Tr. Severin, Romania
<b>Personal skills and competences</b>	
Other language(s)	French – well English - well
Technical skills and competences	Powder metallurgy, Environmental engineering, Computer Aided Design and Engineering
Computer skills and competences	Yes
Driving licence(s)	Category B vehicle

### **Annexes**

Research activity, publications, society memberships, lists of publications articles, books, research contracts.

## Annexes

### Research activity

Member of the research team "*Technology and Innovation in Advanced ReseArch of Composites* (tiara-C), ([tiarac@central.ucv.ro](mailto:tiarac@central.ucv.ro), <http://www.imst.ro/tiara/>) and **Advanced Engineering Group** (AEG) ([www.imst.ro](http://www.imst.ro)) of the University of Craiova, Faculty of Mechanics, Department of Engineering and Management of Technological Systems. Tiara-C group focuses on composite materials: metallic or ceramic - based matrix.

### Scientific research activities:

1. Research Contract no. 3268/2007, type PN II – PC for MEC; coordinator: NRD in Welding and Material Testing ISIM Timisoara; partner: University of Craiova Universitatea din Craiova, The Faculty of the Engineering and Management of the Technological Systems from Drobeta Turnu Severin ; coordinator partnership: prof. Mangra title: **Microwelding systems for circuit elements and microsensors and actuators embeded**; acronym: **MICROWELD**; funding period : 2007-2010, ([www.mindeon.com/microweld](http://www.mindeon.com/microweld));
2. Research Contract Excellency Research (CEEX) no. 85/2006, for: MEC; coordinator: University of Craiova, The Faculty of the Engineering and Management of the Technological Systems from Drobeta Turnu Severin ; coordinator: prof.dr.ing. Mangra Mihail; title: **Knowledge development on the elaboration and microprocessing of the nanostructured materials for MEMS components using powder metallurgy**; acronym : **PRONANOMAT**; funding period : 2006-2008 ([www.pronanomat.eu](http://www.pronanomat.eu) si [www.imst.ro](http://www.imst.ro));
3. Research Contract Excellency Research (CEEX) no. 265/2006, for: MEC; coordinator : NRD in Welding and Material Testing ISIM Timisoara; partner: University of Craiova Universitatea din Craiova, The Faculty of the Engineering and Management of the Technological Systems from Drobeta Turnu Severin; coordinator partnership: prof. Mangra Mihail; title: **Virtual center for integrated technologies with applications of the electrical sounds energy in advanced materials engineering**; acronym: **ULTRATECH** ; funding period : 2006-2008 ([www.isim.ro](http://www.isim.ro));
4. Research Contract Excellency Research (CEEX) no. 266/2006, for: MEC; coordinator : NRD in Welding and Material Testing ISIM Timisoara; partner: University of Craiova Universitatea din Craiova, The Faculty of the Engineering and Management of the Technological Systems from Drobeta Turnu Severin; coordinator partnership: prof. Mangra Mihail; title: **Plurifunctioning microlayers for Titan alloy covering by advanced technologies**; acronym : **MICROFUNCTIA**; funding period: 2006-2008 ([www.isim.ro](http://www.isim.ro)).

## Scientific papers

### ISI

No.	Authors's name	Article's title	Journal	Pubication yers
1.	I.G. BUCSE, M. CIOBANU, O. GHERMEC	Studies regarding the structural characteristics of sintered alloyed steels with nanometric master alloys	JOAM - <a href="#">Journal of Optoelectronics and Advanced Materials</a> (ISI, on-line), vol. 15, nr. 7-8/2013, pag. 673-678, <a href="http://joam.inoe.ro/index.php?option=magazine&amp;op=view&amp;idu=3252&amp;catid=79">http://joam.inoe.ro/index.php?option=magazine&amp;op=view&amp;idu=3252&amp;catid=79</a>	2013
2.	M. CIOBANU, C. NICOLICESCU, I. G. BUÇŞE, I. STEFAN	Heat treatment applied to carbon steels sintered powders of Fe and Fe <sub>3</sub> C powder obtained by mechanical alloying	JOAM - <a href="#">Journal of Optoelectronics and Advanced Materials</a> (ISI, on-line), vol. 15, nr. 7-8/2013, pag. 797-802, <a href="http://joam.inoe.ro/index.php?option=magazine&amp;op=view&amp;idu=3274&amp;catid=79">http://joam.inoe.ro/index.php?option=magazine&amp;op=view&amp;idu=3274&amp;catid=79</a>	2013

## International databases

No.	Authors's name	Article's title	Journal	Pubication yers
1.	Mariana Ciobanu, Traian Popescu, <b>Ionela Bucse</b> , Claudiu Nicolicescu, Iulian Stefan	Research on the Elaboration by Sintering in Steps of Crabon Steels Based on Iron and Pure Synthetic Cementite Nanopowders Obtained by Mechanical Alloy	Materials Science Forum Vol. 672, pp 259-262, valabil on-line din 2011/ianuarie/20 at <a href="http://www.scientific.net">www.scientific.net</a> © (2011) Trans Tech Publications, Switzerland, doi:10.4028/www.scientific.net/MSF.672.259	2011

## B și B+

No.	Authors's name	Article's title	Journal	Pubication yers
1.	Adela IONESCU, Claudiu Nicolicescu, <b>Ionela BUCSE</b> , Jeni GHERCIOIU	Modelling And Simulating The Pressing Process Of Iron Powders With Different Particle Sizes	RECENT (Industrial Engineering Journal), vol. 12, no 3 (33), ISSN 1582-0246, pag.307-310	2011
2.	<b>Ionela BUCSE</b> , Adela IONESCU, Claudiu NICOLICESCU, Jeni GHERCIOIU	Studies Regarding The Influence Of Boron Addition On The Hardness And Friction Coefficient Of The Mn, Mo And Cr Ecological Alloyed Sintered Steels	RECENT (Industrial Engineering Journal), vol. 12, no 3 (33), ISSN 1582-0246, pag.194-197	2011
3.	Ghermec Olimpia, Ghermec Ccristian, Popescu Traian, <b>Bucse Ionela</b> , Ciobanu Mariana	Research regarding the possibility to reduce the phonic pollution of residential quarters bordering industrial areas	Tomul LV (LIX), Fas. 3, Buletinul Institutului Politehnic din Iasi, ISSN: 1453 – 1690	2009
4.	<b>Bucșe</b> Ionela, Ciupitu Ion, Ionescu Adela	The Analysis Of The Technological Parameters Influence In Obtaining The Alloyed Sintered Steels By Twosteps Sintering	Recent (Industrial Engineering Journal), vol. 10 no.3 (27), ISSN 1582-0246, pag. 181-187	2009
5.	<b>Ionela Bucse</b> , Mariana Ciobanu, Claudiu Nicolicescu,	Researches Regarding The Elaboration Of Various Master Alloys Nanopowders Used For Low Alloyed Sintered Steels Production	Bulletin of the Transilvania University of Brasov. Series A2. Vol. 14 (49), 2007, pag. 154-159; ISSN 1223-9631	2007
6.	Mariana Ciobanu, <b>Ionela Bucse</b>	Study Of The Effects Of Using Nanopowders Of Cementite In The Production Of Sintered Steels	Bulletin of the Transilvania University of Brasov. Series A2. Vol. 14 (49), 2007, pag. 67 - 71; ISSN 1223-9631	2007

## JOURNALS OF INTERNATIONAL CONFERENCES

No.	Authors's name	Article's title	Journal	Pubication yers
1.	<b>Bucse I.</b> , Ghermec, C., Ghermec, O., Criveanu, M.,	<i>Research on the Behaviour to the Wear of the Ecological Sintered Low Alloyed Steels Based on Master Alloys</i>	EURO PM2009 Congress & Exhibition, Copenhagen, Denmark, vol. 1, pag. 121, ISBN: 978 1 899072 06 4;	2009
2.	Gingu O., Lupu, N., Tanasescu, S., Rotaru, P., Harabor, A., Mangra, M., Ciupitu, I., Sima, G., Olei, A., <b>Bucse, I.</b>	<i>Spark Plasma Sintering Behavior Of Ceramic Biocomposites Based On Hydroxyapatite Nanopowders,</i>	EURO PM2009 Congress & Exhibition, Copenhagen, Denmark, vol 3, pag. 103-108; ISBN: 978 1 899072 06 4;	2009
3.	Ghermec C., Ghermec, O., Ciupitu, I., <b>Bucse .I.</b>	<i>Research Regarding Wear Behaviour of Carbon Steels Obtained Through Carburizing and Sintering of Iron Powder</i>	EURO PM2009 Congress & Exhibition, Copenhagen, Denmark, vol 1, pag. 73; 978 1 899072 06 4	2009
4.	Criveanu M. C., Gingu, O., Sima, G., Mangra, M., <b>Bucse I.</b> , Ciobanu, M., Ghermec, C.	<i>Properties of Sintered Steels Made from Fe Powders by Carburising-Sintering Process</i>	EURO PM2009 Congress & Exhibition, Copenhagen, Denmark, vol 1, pag. 55, ISBN: 978 1 899072 06 4	2009
5.	Claudiu Nicolicescu, <b>Ionela Bucșe</b> , Mariana Ciobanu,	Using effects of WC powders and WC-Co nanostructured powders to the fabrication of cutting tools	EURO PM2007 Congress & Exhibition, Toulouse, Franța, 14-17 oct. 2007, vol 2, pag. 285-287, ISBN	2007

	Constantin Saceanu, Mihai Demian		: 978-1-899072-30-9	
6.	<b>Ionela Bucse</b> , Marina Ciobanu, Claudiu Nicolicescu, Sorin Savu, S. Saceanu	Studies on the effects of using nanometric and nanostructured powders as master-alloys for the nanostructured low alloyed steels elaboration	EURO PM2007 Congress & Exhibition, Toulouse, Franța, 14-17 oct. 2007, vol. II, pag. 271-273, ISBN: 978-1-899072-30-9	2007
7.	Mariana Ciobanu, <b>Ionela Bucse</b> , Claudiu Nicolicescu, Cristian Ghermec, Stefan Radu	The production of sintered carbon steels as mixture of powders of iron and cementite	EURO PM2007 Congress & Exhibition, Toulouse, Franța, 14-17 oct. 2007, VOL II, P275, ISBN: 978-1-899072-30-9	2007
8.	Savu S, Bica I., Savu D., Catana G., <b>Bucse I.</b> ,	<i>"Cavitation Iron Microparticles and Nanoparticles Generation by Plasma Procedures"</i> ,	Euro PM2007 Congress and Exhibition, Toulouse, Franța, vol 2, pag. 307-312, ISBN: 978-1-899072-30-9;	2007
9.	Claudiu Nicolicescu, <b>Ionela Bucse</b> , Mariana Ciobanu, Constantin Saceanu	Researches regarding the elaboration of some WC+12%Co composite nanopowders	Al 6-lea Seminar de Nanoștiința și Nanotehnologii, 26 Martie 2007, Bucuresti, vol. 11, Pag.118-126, ISBN: 978-973-27-1576-5, Academia Română	2007
10.	<b>Ionela Bucse</b> , Mariana Ciobanu, Claudiu Nicolicescu, Ani Săceanu	Research on the nanometric powder processing by mechanical alloying, used as master-alloys for low alloyed sintered steels elaboration	Al 6-lea Seminar de Nanoștiința și Nanotehnologii, 26 Martie 2007, Bucuresti, vol. 11, Pag.138-145, ISBN: 978-973-27-1576-5, Academia Română	2007
11.	Mariana Ciobanu, <b>Ionela Bucse</b> , Claudiu Nicolicescu, Ani Săceanu	Researches about the elaboration of some composites Fe and Fe <sub>3</sub> C nanopowders for sintered carbon steels fabrication	Al 6-lea Seminar de Nanoștiința și Nanotehnologii, 26 Martie 2007, Bucuresti, vol. 11, Pag.160-166, ISBN: 978-973-27-1576-5, Academia Română	2007

## PAPERS PRESENTED AND PUBLISHED IN PROCEEDINGS OF INTERNATIONAL CONFERENCES

Nr. Crt.	Autori	Titlu	
1.	<b>Bucse I.</b> , Ghermec O., Ciobanu M.	Research on replacement of pollutant alloying elements with ecologically elements in sintered alloyed steels	2 <sup>nd</sup> International Conference Advances in Engineering and Management ADEM 2012, december 13 <sup>th</sup> -14 <sup>st</sup> 2012, pag. 103-106, Drobeta Turnu Severin, Romania;
2.	Mariana Ciobanu, <b>Ionela Gabriela Bucse</b> , Stefan Radu	Studies on quality evolution in Drobeta Turnu Severin	2 <sup>nd</sup> International Conference Advances in Engineering and Management ADEM 2012, december 13 <sup>th</sup> -14 <sup>st</sup> 2012, pag. 107-110, Drobeta Turnu Severin, Romania;
3.	Constantin Cotiga, Mariana Ciobanu, <b>Ionela Gabriela Bucse</b>	The ecological rehabilitation of the ash layers from the central area of Oltenia	2 <sup>nd</sup> International Conference Advances in Engineering and Management ADEM 2012, december 13 <sup>th</sup> -14 <sup>st</sup> 2012, pag. 111-114, Drobeta Turnu Severin, Romania;
4.	<b>Bucse I.</b> , Ghermec O., Nicolicescu C., Ciobanu M.	Recycling Materials From Municipal Waste	1st International Conference Advances in Engineering and Management ADEM 2010, May 19 <sup>th</sup> -21 <sup>st</sup> 2010, Drobeta Turnu Severin, Romania;
5.	C. Nicolicescu, I. V.Simiti, M. Ciobanu, <b>I. Bucse</b>	Elaboration of the nanostructured electrical contacts for high power currents by W-Cu nanocomposite powders	The eighth Seminar of Nanoscience and Nanotechnology, 26 March 2009, Bucharest

6.	Gingu O., Rotaru, P., Torralba, J.M., Harabor, A., Mangra, M., Ciupitu, I., Sima, G., Olei, A., <b>Bucse, I.G.</b>	<i>New Sintering Processing Route For Ceramic Biocomposites Based On Hydroxyapatite Nanopowders. Part I – Thermal Analysis,</i>	The 4 <sup>th</sup> International Conference on Powder Metallurgy RoPM 2009, Craiova, Romania, 8-11 July 2009 (under the EPMA auspices) Book of abstracts, ISBN: 978-973-53-0097-5
7.	<b>Bucse, I.</b> , Gingu, O., Ciobanu, M., Ionescu, A.	<i>Research of the elaboration of ecological low alloyed sintered steels based on Mn, Mo, Cr and B,</i>	The 4 <sup>th</sup> International Conference on Powder Metallurgy RoPM 2009, Craiova, Romania, 8-11 July 2009 (under the EPMA auspices) Book of abstracts, ISBN: 978-973-53-0097-5
8.	Ghermec C., Ghermec O., Ciupitu I., <b>Bucse, I.</b>	<i>Research regarding the influence of the compaction pressure of the iron powder on the processes that take place when elaborating steels obtained through the carburizing – sintering proceeding ,</i>	The 4 <sup>th</sup> International Conference on Powder Metallurgy RoPM 2009, Craiova, Romania, 8-11 July 2009 (under the EPMA auspices) Book of abstracts, ISBN: 978-973-53-0097-5
9.	Mazilu M., <b>Bucse, I.</b> , Ciobanu, M.	Impact, vulnerability and inuring to the climate changes	Global Conference on Global Warming 2008 (GCGW-08)", Istanbul, Turcia, 06-10 iulie.2008, pag. 264 – 271
10.	Ciobanu M., Ciobanu M., <b>Bucse I.</b>	Air Quality in Drobeta Turnu Severin	Simpozion International Mediul si Industria, SIMI 2007, 25-27 octombrie 2007, Bucuresti, pg. 310-318, ISBN: 1843-5831
11.	Ghermec O., Ghermec C., <b>Bucse I.</b> , Ciobanu M.	Research Regarding the Waste Paper Management and the Ecologic Impact over the Wood Reserve of Broad – Leaved from the South – West of Romania	Simpozion International Mediul si Industria, SIMI 2007, 25-27 octombrie 2007, Bucuresti, pg. 251, ISBN: 978-973-7681-28-7; vol II, pg. 395, ISSN 1843-5831
12.	Ciobanu M., Ciobanu M., <b>Bucse I.</b>	Ecologic Crisis Situation Management	Simpozion International Mediul si Industria, SIMI 2007, 25-27 octombrie 2007, Bucuresti, pg. 391 – 395, ISBN: 1843-5831
13.	<b>Bucse I.</b> , Ghermec O., Ciobanu M. "	Research Regarding the Ppossibility of Environment Legislation Application in the Field of Waste Waters in the Rural Areas of Mehedinti County	Simpozion International Mediul si Industria, SIMI 2007, 25-27 octombrie 2007, Bucuresti; pg. 250, ISBN: 978-973-7681-28-7, vol II, pg. 379, ISSN: 1843-5831

## JOURNALS WITHOUT COTATION

Nr. Crt.	Autori	Titlu	Journal	Anul publicării
1.	<b>Bucse Ionela</b>	Analyses regarding porosity test of sintered low alloy steels of nanostructured powders	Review of Industrial Engineering 2008, vol. 1, pag. 4-7, ISSN 1583-5200	2008

### Books:

1. Demian, G., Ghermec, O., Ciobanu, M., **Bucse, I.**, Nicolicescu, C. – **Phisics - Booklet for laboratory practice**, Universitaria Printing House, 2006, ISBN: 978 – 973 – 742 – 528 – 7;

**Society memberships:** 2006 - 2012 Romanian Welding Association (member);  
2009 - Romanian Engineers General Association (member);  
2013 - Romanian Association of Tribology (member).

### Summer schools, workshops:

- 16-18 iulie 2007– participation in summer school "Nanosciences & Nanotechnologies (SS-NN07)" la Thessaloniki in Grecia.

**Winter School:**

- 14-16 December 2012 - participation in the Winter School "1st Winter School - A weekend on the Danube! Renewable Energy Systems and Green Nanotechnologies for a Clean Environment ", Drobeta - Turnu Severin, Romania.

**Summer Academy:**

- 1 to 11 August 2013 - participation in the Summer Academy on "New perspectives in teaching between pupil-centered and competent approach" organized by "1 December 1918" Alba Iulia, Romania.