

Curriculum vitae



Personal information

Name / First name

BIRIȘ SORIN-ȘTEFAN

Adress

Str. Rezervelor, Nr. 72, Bl. 2, Ap. 13, Sat Roșu, Com. Chiajna, Jud. Ilfov

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E-mai

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Naționality

Romanian

Birth date

December 26, 1968

Sex

M

Work experience

Duration

1993 - present

Function or job position

Professor (March 2014 - present), Associate Professor (2007-March 2014), Lecturer PhD. (2000-2007), Assistant Professor. (1995-2000), Junior Univ. (1993-1995), Department of Biotechnical Systems, Vice-Dean of Faculty of Biotechnical Systems Engineering (2008-2012), Head of Biotechnical Systems Department (2012-present) Member of the Teaching Council of Faculty of Biotechnical Systems Engineering University Politehnica of Bucharest (2004-present)

Main activities and responsibilities

Education, research, faculty level management

Holder classes:

- "Finite Element Method" (license, year 3, 1998-present)
- "Operations and process equipment" (license, year 4, 2005-present)
- "Transfer phenomena and unit operations" (license, year 4, 2007-present)
- "Advanced Methods of biotechnical systems analysis" (masters program, year 1, 2010-present)
- "Using the finite element method in research and design" (masters program, year 2, 1997-2001 and 2008-2009)
- "Machines and plants for extractive and fermentation food industry" (license, year 4, 1997-present)

Name and adress of employer

„Politehnica” University of Bucharest, str. Splaiul Independentei nr. 313, sector 6.

Activity type or sector

- Teaching courses;
- Scientific research activity;
- Student research guidance.
- Management activity.
- National and international research projects evaluation.

Education and training

Duration	15.06.2010-30.04.2013
Qualification / awarded	Postdoctoral Training program / Postdoctoral Diploma
Main studied subjects / professional gained skillscompetențe	Mechanical Engineering - modern propulsion systems of land vehicles/ Research on optimizing of running systems for vehicle to the different conditions of tread
Name and type of educational organization / training provider	University Politehnica of Bucharest
Duration	27.05.2010-25.11.2010
Qualification / awarded	University management / Graduation Certificate
Main studied subjects / professional gained skillscompetențe	University management - Present and Perspectives; University Scientific Research; Legislation in the field of university management; Financing higher education
Name and type of educational organization / training provider	Academy of Economic Studies Bucharest / School of postgraduate training Training course
Duration	1.04.1994-3.06.1999
Qualification / awarded	Doctoral Program / PhD Diploma "magna cum laude" in Mechanical Engineering / Farm Machinery
Main studied subjects / professional gained skillscompetențe	Mechanical / Agricultural Machinery / Machinery for soil / Computer Aided Design / acquisition and processing of experimental data; Thesis: Research on the development and verification of a package of computer programs for the design of active surfaces of the plough body
Name and type of educational organization / training provider	University Politehnica of Bucharest
Duration	1988-1993
Qualification / awarded	Mechanical Engineer , Agricultural Machine Building;
Main studied subjects / professional gained skillscompetențe	Calculation, construction and design of machinery for agriculture and food industry; Calculation, construction, design and optimization of food processing machinery products; Computer Aided Design and Analysis.
Name and type of educational organization / training provider	University Politehnica of Bucharest, Faculty of Agricultural Mechanics

Personal skills and competences

Native language(s)	Romanian									
Foreign known language(s)	English, Deutch									
Autoevaluation										
European level(*)										
English	Understanding				Talking				Writing	
	Listening		Reading		Participation in conversation		Oral speech		Writing capacity	
	B2	Independent user	B2	Independent user	B2	Independent user	B2	Independent user	B2	Independent user
	B1	Elementary user	B2	Elementary user	B2	Elementary user	B2	Elementary user	B2	Elementary user
Deutch										

Activity for elaboration and publication of scientific papers.	<ul style="list-style-type: none"> -Books and chapters in specialized books: 10 -Teaching books: 5 -Laboratory / applications books: 2 -Articles in journals and proceedings Thomson Reuters ISI: 31 -Requests patents: 2 -Patents: 2 -Articles in journals and volumes of scientific indexed in other international databases: 70 -Articles published in international journals: 11 -Scientific Research Reports 26 (director / charge), 18 (member of the research team) -Articles published in journals recognized by CNCSIS national movement: 17 -Articles published in other magazines of national circulation: 14 -Articles published in proceedings of international scientific meetings organized in the country and abroad: 61 -Papers published in the proceedings of national scientific meetings: 53
Social skills and competences	I am a team-spirited person and I like to interact with people, that being due the fact that I currently practice sports (martial arts). I am able to rapidly adapt to multicultural environments, gained in the study and documentation visits, as well as in scientific events at prestigious universities from abroad. I have good communication skills gained as a result of my experience as project manager in research projects. I have good communication skills obtained as a result of experience as director of research contracts, as faculty vicee-dean, as director of the department, and as a trainer of trainers.
Organisational skills and competences	I run coordination and leadership activities as faculty vicedean, and as director of department also being responsible with organizing the activities of students, master and doctoral students (about 1000 persons). I am organizational minded and I have logistical experience due to the coordination activities of timetables composition and as my position of scientific research projects manager. As project manager, I have founded a national research consortium including PU Bucharest, INMA Bucharest, PU Timisoara, USAMVB Timisoara, with whom I have completed, until now, five projects gained through national competition.
Technical skills and competences	Modeling, simulation, optimization of machineries and equipments for agriculture and food industry. Computer aided design and analysis of biotechnical systems using Finite Elements Method, being one of the first paper authors in the country in this domain. Experimental data aquisition and processing, being the creator of several data aquisition systems in the field of machinery for agriculture and food industry. Operations and process equipment. Environmental protection. Sustainable rural development engineering..
Computer use skills and competences	Good knowledge of Microsoft Office tools and advanced knowledges regarding the use of computer aided design and analysis programs: MatCAD, AutoCAD, Unigraphics, Cosmos/M, Nastran, Elcut, etc.
Other skills and competences	Advanced martial arts (Aikido Yoshinkan)
Driving license	I own B category driving license

Additional information

- Since 2010, member of AMERICAN SOCIETY OF AGRICULTURAL & BIOLOGICAL ENGINEERS;
- Since 2008, member of Balkan Environmental Association (B.EN.A.);
- Since 1991, member of General Association of the Engineers in Romania;
- Since 1996, member of International Soil Tillage Research Organization;
- Since 1996, member of Romanian Organization of Soil Tillage Researches;
- Since 2002, member of Mutidisciplinary Research Association in the Western Romania;
- Since 2005, member of Romanian Society of Tensometry;
- Since 2002, member of Editorial Board of „Balkan Agricultural Engineering Review” journal;
- Since 2007, scientific reader for „Scientific Bulletin”, D Series: Mechanical Engineering, „Politehnica” University of Bucharest;
- Scientific reader for INMATEH journal;
- Included in the „Bibliographic dictionary– Scientists from Mureş”, authors: Ana Todea, Mária Fülöp, Monica Avram.Tg. Mureş County Library, 2004;
- Since 2007, member of „Who is Who” „Enciclopedia of Romanian Personalities”.
- Chairman of organizing committee of the 1st Conference with International Participation „Simulation-Modelling, and Computer Aided Design in the Field of Agricultural Machines and Food Industry”, „Politehnica” University of Bucharest, nov. 9-10, 2007.
- Chairman of „Technical sciences” section within the International Conference “Research People and Actual Tasks on Multidisciplinary Sciences”, Lozenec, Bulgaria, june 6-8, 2007.
- Member of scientific committee of the IXth International Symposium “Youngs and Multidisciplinary Research”, Timisoara, nov. 15-16, 2007.
- Chairman of organizing committee and responsible in the redactional college of the draft for the National Symposium on the theme “ Simulation and computer aided design of agricultural machinery” (SPACMA-2001), P.U.B., dec. 8, 2001.
- Member of organizing committee of Jubilee Session of scientific communications “Achievements and prospects in Biotechnical Systems Engineering” (ISBTeh-2002), P.U.B., june 7-8, 2002.
- Since 2006, specialty referent for „TechnoMarket –Machines Tools Equipmens” journal.
- Secretary of the commission “Agricultural production and technologies” within ANSTI, RELANSIN program (1999, 2000).
- Study and documentation visit for laboratory testing of agriculture and food industry equipments, „Hohenheim” University, Stuttgart, Germany, August 2003;
- Training „CAD/CAM Pro/Engineer”, Institute for Systems Analysis (INAS) Craiova, „Politehnica” University of Bucharest, june 1997.
- Training „CAD/CAM Mechanical Engineer & Unigrafics”, Universitatea „Politehnica” University of Bucharest, may 1998.
- Delegation leader in 2007, as CEEX Module 3 project manager, realising international cooperation agreements with universities and prestigious research institutes from Europe: Universität für Bodenkultur Vienna (march 5-6, 2007); University of Novi Sad, Serbia, Faculty of Agriculture (april, 2007); Agricultural Engineering Department, Faculty of Agriculture, University of Zagreb, Croatia (febr. 2007), Hungarian Institute of Agricultural Engineering Godolo (aprilie, 2007), Agricultural Engineering and Economics Department, University of Torino, Italy (march, 2007), Technological Educational Institut of Kozany, Grece (august 2007).
- Delegation member at the 2nd European Workshop on Standardised Procedure for the Inspection of Sprayers in Europe – SPISE 2007, Straelen, Germany (april 10-12, 2007), who made working visits to research and inspections of spraying equipments centers from Germany, Holland and Belgium, a working visit to John Deere Company, a subsidiary of Netherlands, for the manufacture of spraying equipments.
- Since 2009, national expert, for the Environmental Engineering domain, Study Program: Sustainable rural development engineering, within the “Development of an Operational System of Higher Education Qualifications in Romania”, National Agency for Qualifications in Higher Education and Partnership with the Economical and Social Environment (ACPART-DOCIS),
- Since 2006, member of Evaluator Experts Body for the National Centre for Programs Management and for CNCSIS;
- Evaluator expert for the European Social Fund (ESF) for human resources development through Sectoral Operational Programme for Human Resources Development (POS DRU) 2007-2013, National Authority for Scientific Research;

15.04.2016