Ministerul Educației



Universitatea POLITEHNICA din București

Formular de publicare a posturilor didactice și de cercetare în platforma *Euraxess*

Contact: euraxess@upb.ro



Basic information*1

Title*	Profesor universitar, poziția 6		
	Departament description- Biotechnical systems		
	Biotechnical systems are those technical systems that work		
	with biological materials and process them in order to obtain		
	food or to protect the environment, based on the imposition of		
	technology as a tool to meet the world's food needs. They are		
	also those agricultural systems in which plants grow without		
	the presence of soil or the manipulation of living organisms by		
	the application of science and engineering in order to believe		
	useful products to humans.		
	The Biotechnical Systems Department trains engineers		
	through its programs of:		
	- Undergraduate studies:		
	Applied Informatics in Environmental Engineering (IAIM)		
	Mechatronics of Biotechnical Systems (MSB)		
	Food Engineering (IPA)		
	Machines and Installations for Agriculture and Food		
	Industry (MIAIA)		
	- Masters:		
	Research, Design, Testing of Biotechnical Systems		
	(CPTSB)		
Offer description*	Biotechnical Systems Engineering and Management		
• · · • · • • • • • • • • • • •	(IMSB)		
	Environmental Protection Engineering and Management		
	(IMPM)		
	Advanced Technologies in the Food Industry (TAIA)		
	The employment success rate of our graduates is very high,		
	they are appreciated by important companies such as New		
	Holland, CLASS, John Deere, IPSO or URBAN.		
	Within the Department's Research Center, CCDSB, special		
	emphasis is placed on scientific research conducted in modern		
	The collaboration with similar institutions on a national and		
	international level aims at the joint organization of study		
	programs, the development of research projects, mobility for		
	teachers and students, as well as curriculum compatibility		
	The disciplines that are part of job structure are:		
	- Geomorphology of the environment		
	 Meteorology and climatology 		
	 The engineering of the ecological storage of solid waste 		
	- Monitoring and control of environmental factors		
Research field*	Environmental Engineering		
	Engineering		

Type of contract*	Permanent	Job status	Full-time

¹ Câmpurile marcate cu * sunt obligatorii.

Is the job funded through a EU Research Framework Programme?* Click pentru a selecta o opțiune. No ⊠

I.

Hiring information and work location²

Faculty*	Ingineria Sistemelor Biotehnice				
Department*	Biotechnical system engineering				
No. of positions available					
Website	http://isb.pub.ro/	Contact person e-mail*	ghvoicu2005@yahoo.com		
Phone		Mobile phone	0724715585		

² Câmpurile marcate cu * sunt obligatorii.

II.	Requirements
Required education level	Ph.D. or equivalent
Skills/Qualifications	 motivational skills, interpersonal skills and communication skills for the development of undergraduate, master's and doctoral students skills for efficient systematization and teaching of technical information within the job disciplines -creation of a research laboratory in which to work with the latest equipment and on the latest research topics competences of scientific research in the laboratory on the subject of the disciplines subjects skills for continuous improvement (improvement) of knowledge of the disciplines in the field of the job put up for competition in accordance with the evolution of science competence in the oral presentation of works at national and international conferences in the field of environmental engineering; competence in the use and interpretation of techniques for monitoring and controlling environmental factors; -competence in the efficient use of renewable energy sources; -competence in conducting state-of-the-art research in the field of environmental engineering that can be published in journals with F.I. > 1; the ability to coordinate doctoral students on various current research topics in the field of environmental engineering that can be published in journals with F.I. > 1; the ability to coordinate doctoral students on various current research topics in the field of environmental engineering that can be published in journals with F.I. > 1; the competence to participate in carrying out scientific research activities, on the basis of a contract/grant, or in other research works, in the field of the position put out to competition, as a member of the research team or as responsible for the project
Required languages	Romanian and english

III.	Additional information
Additional comments	The ability to coordinate doctoral students on various current research topics in the field of environmental engineering.

	-		-
Biology		Communication science	
Biological sciences		Graphic communication	
Biodiversity		Science communication	
Biological engineering			
		Computer science	
Agricultural sciences		3D Modelling	
Soil science		Automatic computing	
Agronomics		Computer architecture	
Agricultural products		Computer hardware	
		Computer systems	
Arts		Cybernetics	
Visual arts		Database management	
		Digital systems	
Astronomy		Informatics	
Astrophysics		Modelling tools	
Cosmology		Programming	
		Systems design	
Chemistry			
Analytical chemistry		Economics	
Applied chemistry		Applied economics	
Biological chemistry		Business economics	
Catalysis chemistry		Commercia economics	
Combinatorial chemistry		Consumer economics	
Computational chemistry		Econometrics	
Heterogenous chemistry		Industrial economics	
Homogeneous chemistry		Market economics	
Inorganic chemistry		Marketing	
Instrumental analyses		Management studies	
Instrumental techniques		Production economics	
Molecular chemistry		Transport economics	
Physical chemistry		Other	
Other			
Reaction mechanisms and			
dynamics		Engineering	
Solar chemistry		Airspace engineering	
Structural chemistry		Agriculture engineering	
		Biomaterial engineering	
Education		Biomedical engineering	
Learning studies		Chemical engineering	
Research methodology		Civil engineering	
Teaching methods		Communication engineering	
		Computer engineering	
Information science		Control engineering	
Information management		Design engineering	
	-	Electrical engineering	
Management		Electronical engineering	
		Industrial engineering	
Mathematics		Knowledge engineering	

Computation mathematics Mechanical engineering Discrete mathematics Microengineering Chaos theory Nuclear engineering Applied mathematics Precision engineering Algebra Process engineering Algorithms Projects engineering Geometrics Simulation engineering Mathematical analysis Sound engineering Probability Surveying engineering Statistics System engineering Mathematical logic Image: Physics Number theory Physics Energy technology Relativity Energy technology Mathematical physics Future technology Statics Communication technology Statistical physics Communication technology Statistical physics
Discrete mathematics Microengineering Chaos theory Nuclear engineering Applied mathematics Precision engineering Algebra Process engineering Algorithms Projects engineering Geometrics Simulation engineering Mathematical analysis Sound engineering Probability Surveying engineering Statistics System engineering Mathematical logic Physics Number theory Physics Chemical technology Relativity Energy technology Neutron physics Future technology Mathematical physics Communication technology Statistical physics Computer technology Statistical physics
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Construction technology Image: Thermodynamics Craphic technology Image: Electromagnetism
High vacuum technology
Space technology
Standardisation of technologies
Telecommunications technology
Sound technology
Safety technology
Production technology Biophysics
Quantum technology
Remote sensing
Transport technology
Vacuum technology
Water technologyImage: Political sciencesImage: Image: Imag
Knowledge technology
Laboratory technology Policy studies
Marine technology
Internet technology
Interface technology
Industrial technology 🛛 Sociology
Information technology
Instrumentation technology
Materials technology
Measurement technology
Nanotechnology

Nuclear technology		
Optronics		
Mining		
Military technology		
Medical technology		
Micro-technology		

Ministerul Educației



Universitatea POLITEHNICA din București

Formular de publicare a posturilor didactice și de cercetare în platforma *Euraxess*

Contact: euraxess@upb.ro



Basic information

Title	Şef Lucrări, poziția 25
Offer description	APPLICATION Before applying, all candidates are invited to read carefully the UPB's Methodology for occupying didactic and research positions: https://posturivacante.upb.ro/wp- content/uploads/2022/09/Methodology-for-occupyng-vacant-didactic- and-research-positions-2022.pdf
	The Department of Biotechnical Systems of the Faculty of Biotechnical Systems Engineering, Polytechnic University of Bucharest, announces a competition for a vacancy of Associate Professor in the field of Plant and Animal Resources Engineering. The courses that are part of the vacant position are: Technologies and Control in the Milk Industry; Agricultural Machinery III / Advanced Biotechnical Systems III; Modern Methods in Food Processing; Legislation and Consumer Protection; General Technologies in the Food Industry. Biotechnical systems are technical systems that work with biological materials and process them to obtain food or to protect the environment, based on the imposition of technology as a tool to meet the world's food needs. They are also those agricultural systems that allow plants to grow without the presence of soil, or systems for manipulating living organisms by applying
	science and engineering techniques, in order to provide useful products. Within the academic year 2022-2023, Biotechnical Systems Department has the following undergraduate programs: Applied Informatics in Environmental Engineering; Food Engineering; Machinery and Equipment for Agriculture and Food Industry; Mechatronics for Biotechnical Systems; for masters degree, the following programs are available: Research, Design, and Testing of Biotechnical Systems; Advanced Technologies in Food Industry; Engineering and Management of Biotechnical Systems; Engineering and Management in Environmental Protection; there are also available PhD studies in the fields of Mechanical Engineering and Environmental Engineering
	In accordance with the mission and objectives of the University POLITEHNICA of Bucharest, the mission of the Faculty of Biotechnical Systems Engineering is to promote education and research to meet the demands of a society based on knowledge and continuing education, in the interest of society and respect for human dignity. The Faculty of Biotechnical Systems Engineering has undertaken a student-centered education mission, structured around the following objectives: training of specialists in the fields of environmental engineering, mechanical engineering, food engineering, mechatronics and robotics, with a solid professional training based on the thorough development of general engineering sciences and of related sciences, on the understanding of the spirit that incorporates as a whole the sciences that provide specialized training in the engineering area; continuous correlation of the theoretical training with the practical training, the formation of students' capacity to apply in practice the assimilated knowledge; combining the engineering training that
	is specific to each field of study, with the concern for achieving a healthy moral education, which is focused on promoting quality and efficiency in education and research, on making education and research compatible with European

	guidelines, on adapting the educational offer to the requirements of the market, on the continuous development of scientific research at the level of international standards, on the assertion of the scientific performance of members of the academic community, on the development of partnerships with business, national and international institutions and organizations, and on the modernization and development of teaching and research materials. The Faculty ensures the realization of an efficient education, developed and improved through scientific research activity, according to the requirements and demands, with appropriate means offered by the modern information society. Graduates of the Environmental Engineering study programmes will be able to use specific, technical and cultural-humanistic knowledge to contribute to the technological, economic and social-cultural progress of Romanian society and the contemporary world.
Research field	Engineering

Is the job funded through a EU Research Framework Programme?* Click pentru a selecta o opțiune. No 🖂

Where to apply floarea.dragomir@upb.ro

Hiring information and work location Ι.

Faculty	Ingineria Sistemelor Blotehnice
Department	Biotechnical Systems
Department/Centre website	http://bios.pub.ro/
Contact person e-mail	ghvoicu_2005@yahoo.com
Contact person phone number	+40214029633

Requirements II.

Această secțiune este opțională. Recomandăm includerea unor informații pentru a completa anunțul de angajare.

Required education level	Engineering
	Ph.D. or equivalent

Skills/Qualifications	 The candidate must have a Bachelor's and Master's degree in Mechanical Engineering and a PhD degree in Mechanical Engineering (with the topic of the PhD thesis close to or related to Plant and Animal Resources Engineering, according to the disciplines of the vacancy). The candidate must have very good organization and communication skills, as well as availability for traveling to scientific events. Publication in national and/or international publishing houses, as author or co-author, of specialized books with ISBN, whose subject matter is either in the field of the disciplines from the vacant position, or in similar fields, is an advantage. The candidate must prove the activity of publishing the research results (author/co-author of books, book chapters, articles, and/or patents or patent applications) in the field of the vacant position or in related fields. These results also demonstrate the candidate's ability to coordinate students in scientific research activities, to complete the diploma/ dissertation assignments, or to participate in student communication sessions. In addition to teaching and research activities, the candidate must be involved in all activities carried out in the department, including coordinating diploma and master's theses to complete university studies, tutoring, attracting candidates for undergraduate and master's studies, promotion of the faculty's study programs etc.
Specific requirements	 minimum 6 years of university teaching experience; membership in at least 1 scientific research contract won through competition; enrolled in a postdoctoral programme.
Required languages	Romanian (Native language)
Required research experience	Engineering 4-10

III. Additional information

Această secțiune este opțională.

7	
Additional comments	All academic staff at UPB enjoy several benefits, such as training and professional development opportunities, holiday leave, accommodation in UPB residences, banking facilities, access to research infrastructure, and software for remote working.
	- Technologies and Control in the Dairy Industry - is a subject studied in the fourth year of the Food Engineering specialization. The subject covers concepts related to the properties of milk of animal origin, such as fat, protein, casein, vitamins and minerals. It also covers concepts related to technological processes for preserving milk or processes and technologies for obtaining drinking milk, milk powder, butter and fresh and ripened cheeses. The

	subject also covers concepts related to the specific
	analysis of the dairy industry.
	Systems III is a subject studied in the fourth year of the
	Food Industry Machinery and Plant Engineering
	the processes and technologies used to process
	feedstuffs, but also with the construction of machinery
	used to process feedstuffs or to distribute water and feed to animals
-	Modern Methods in Food Processing - is a subject studied
	in the Fourth Year of the Food Engineering specialisation.
	The subject deals with concepts related to food preservation technologies
	Legislation and Consumer Protection - is a subject studied
	in the fourth year of the Food Products Engineering
	specialisation and deals with notions related to combating
	harmonising regulations with European consumer
	protection legislation, as well as notions related to the
	approval of rules on the marketing of food products.
	studied in the third year of the specialisation Food Control
	and Expertise in the Faculty of Chemical Engineering and
	Biotechnology. This subject deals with concepts related to
	meat, milk, sugar, winemaking, distillation.

IV. ANEXA: Lista subdomeniilor de cercetare.

Recomandăm selectarea a cât mai multe subdomenii. Cel puțin unul este obligatoriu.

Biological sciences	Communication science	
Biodiversity	Graphic communication	
Biological engineering	Science communication	
Biology		
	Computer science	
Agricultural sciences	3D Modelling	
Soil science	Automatic computing	
Agronomics	Computer architecture	
Agricultural products	Computer hardware	
	Computer systems	
Arts	Cybernetics	
Visual arts	Database management	
	Digital systems	
Astronomy	Informatics	
Astrophysics	Modelling tools	
Cosmology	Programming	
Other		
	Systems design	
Chemistry		
Analytical chemistry	Economics	

Applied chemistry	Applied economics	
Biochemistry	Business economics	
Combinatorial chemistry	Commercia economics	
Computational chemistry	Consumer economics	
Heterogenous chemistry	Econometrics	
Homogeneous chemistry	Industrial economics	
Inorganic chemistry	Market economics	
Instrumental analyses	Marketing	
Instrumental techniques	Management studies	
Molecular chemistry	Production economics	
Organic chemistry	Transport economics	
Physical chemistry		
Other	Other	
Reaction mechanisms and dynamics		
Solar chemistry	Engineering	\boxtimes
Structural chemistry	Airspace engineering	
	Agriculture engineering	\boxtimes
	Biomaterial engineering	\boxtimes
Education	Biomedical engineering	
Learning studies	Chemical engineering	
Research methodology	Civil engineering	
Teaching methods	Communication engineering	
	Computer engineering	
Information science	Control engineering	
Information management	Design engineering	
	Electrical engineering	
Management	Electronic engineering	
	Industrial engineering	
Mathematics	Knowledge engineering	
Combinatorial analysis	Materials engineering	
Computation mathematics	Mechanical engineering	\boxtimes
Discrete mathematics	Microengineering	
Chaos theory	Nuclear engineering	
Applied mathematics	Precision engineering	
Algebra	Process engineering	\boxtimes
Algorithms	Projects engineering	
Geometrics	Simulation engineering	
Mathematical analysis	Sound engineering	
Probability	Surveying engineering	
Statistics	Systems engineering	
Mathematical logic		
Number theory	Physics	
	Quantum mechanics	
Technology	Relativity	
Chemical technology	Solid state physics	
Energy technology	Neutron physics	
Environmental technology	Electronic physics	
Future technology	Mathematical physics	

Electrical technology		Metrology	
Dating techniques		Statics	
Communication technology		Statistical physics	
Computer technology		Surface physics	
Construction technology		Thermodynamics	
Graphic techniques		Electromagnetism	
High vacuum technology		Optics	
Space technology		Condensed matter properties	
Standardization of technologies		Acoustics	
Telecommunications technology		Classical mechanics	
Sound technology		Computational physics	
Safety technology		Chemical physics	
Production technology		Biophysics	
Quantum technology		Applied physics	
Remote sensing			
Transport technology		Medical sciences	
Vacuum technology			
Water technology		Political sciences	
Knowledge technology		Science and society	
Laboratory technology		Policy studies	
Marine technology		Public awareness of science	
Internet technology		Public policy	
Interface technology			
Industrial technology		Sociology	
Information technology		Sociology of enterprise	
Instrumentation technology		Social shaping of technology	
Materials technology			
Measurement technology			
Nanotechnology			
Nuclear technology			
Optronics			
Mining			
Military technology			
Medical technology			
Micro-technology			
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Formular de publicare a posturilor didactice și de cercetare în platforma *Euraxess*

Contact: euraxess@upb.ro



I. Basic information

Title	itle Şef de lucrări, poziția 26	
Offer description	The Department of Biotechnical Systems within the Faculty of	
	Biotechnical Systems Engineering, University POLITEHNICA of	
	Bucharest, announces the competition for a vacant position of	
	lecturer, in the field of Environmental Engineering.	
	The courses that are part of the vacant position are: Ecology,	
	Environmental factors investigation, Topography, Computer-assisted	
	biotechnologies	
	Biotechnical systems are technical systems that work with	
	biological materials and process them to obtain food or to protect the	
	anvironment, based on the imposition of technology as a tool to meet	
	the world's feed needs. They are also these agricultural systems that	
	allow plants to grow without the presence of soil or systems that	
	allow plants to grow without the presence of soil, of systems for	
	techniques in order to provide useful products	
	Nithing the seedersis were 2000 2002. Distachaised Customer	
	vvitnin the academic year 2022-2023, Biotechnical Systems	
	Department has the following undergraduate programs: Applied	
	Informatics in Environmental Engineering; Food Engineering;	
	Machinery and Equipment for Agriculture and Food Industry;	
	Mechatronics for Biotechnical Systems; for masters degree, the	
	following programs are available: Research, Design, and Testing of	
	Biotechnical Systems; Advanced Technologies in Food Industry;	
	Engineering and Management of Biotechnical Systems; Engineering	
	and Management in Environmental Protection; there are also	
	available PhD studies in the fields of Mechanical Engineering and	
	Environmental Engineering.	
	In accordance with the mission and objectives of the University	
	POLITEHNICA of Bucharest, the mission of the Faculty of	
	Biotechnical Systems Engineering is to promote education and	
	research to meet the demands of a society based on knowledge and	
	continuing education, in the interest of society and respect for human	
	dignity.	
	The Faculty of Biotechnical Systems Engineering has undertaken	
	a student-centered education mission, structured around the following	
	objectives:	
	• training of specialists in the fields of environmental engineering,	
	mechanical engineering, food engineering, mechatronics and	
	robotics, with a solid professional training based on the thorough	
	development of general engineering sciences and of related sciences,	
	on the understanding of the spirit that incorporates as a whole the	
	sciences that provide specialized training in the engineering area;	
	• continuous correlation of the theoretical training with the practical	
	training, the formation of students' capacity to apply in practice the	
	assimilated knowledge;	
	• combining the engineering training that is specific to each field of	
	study, with the concern for achieving a healthy moral education, which	
	is focused on promoting quality and efficiency in education and	
	research, on making education and research compatible with	
	European guidelines, on adapting the educational offer to the	
	requirements of the market, on the continuous development of	
	scientific research at the level of international standards on the	
	assertion of the scientific performance of members of the academic	
	community on the development of partnerships with business	
	national and international institutions and organizations and on the	
	modernization and development of teaching and research materials	
	modernization and development of teaching and research materials.	

	Regarding the field of Environmental Engineering, according to the
	Chart of University POLITEHNICA of Bucharest, the Faculty of
	Biotechnical Systems Engineering, through the Department of
	Biotechnical Systems, also assumes the mission of training specialists
	through the following levels of studies:
	✓ Undergraduate studies - specialization in Applied Informatics
	in Environmental Engineering. Graduates of this specialization will be
	able to: understand the mechanisms, processes and effects of
	anthropogenic or natural origin that determine and influence
	environmental pollution: analyse the technical solutions needed to
	prevent, mitigate and eliminate negative environmental phenomena.
	develop digital technologies and software applications for the
	realization of products, machinery, equipment for depollution and
	environmental protection and intelligent tools integrated into
	computer systems: use legal regulations and information technologies
	to prevent and mitigate the impact of natural and man-made
	phenomena on the environment: identify and use the methods and
	instrumental techniques needed to monitor environmental factors:
	coordinate the processes and activities carried out in organisations
	and companies in the field of environmental protection using intelligent
	information applications
	\checkmark Master studies - specializations in Engineering and
	Management in Environmental Protection and Engineering and
	Management of Biotechnical Systems, Graduates of these programs
	will have the following competences. Completion of fundamental
	knowledge specific to environmental engineering. Elaboration of
	studies and reports publishable or professionally applicable in the field
	of environmental engineering and protection. Implementation of
	scientific principles specific rules and regulations in environmental
	engineering and environmental management systems
	\checkmark Doctoral studies within the Biotechnical Systems Doctoral
	School. The faculty ensures the accomplishment of high-performance
	doctoral internships, developed and perfected by means of scientific
	research in accordance to established high level requirements and
	exidencies as well as with appropriate means that are offered by the
	modern information society
	APPLICATION
	Before applying all candidates are invited to read carefully the UPB's
	Methodology for occupying didactic and research positions:
	https://posturivacante.upb.ro/wp-
	content/uploads/2022/09/Methodology-for-occupyng-vacant-didactic-
	and-research-positions-2022 pdf
Research field	Engineering

Is the job funded through a EU Research Framework Programme?* Click pentru a selecta o opțiune. No ⊠

Where to apply floarea.dragomir@upb.ro

П. Hiring information and work location

Faculty	Ingineria Sistemelor Blotehnice
Department	Biotechnical Systems
Department/Centre website	http://bios.pub.ro/
Contact person e-mail	ghvoicu2005@yahoo.com
Contact person phone number	0040214029633

Requirements III.

Această secțiune este opțională. Recomandăm includerea unor informații pentru a completa anunțul de angajare.

Engineering	
Ph.D. or equivalent	
 The candidate must have bachelor's and master's degree in the field of Environmental Engineering or in the field of Mechanical Engineering (in the case of five-year university studies, only an engineering degree in one of the above mentioned fields), as well as a doctoral degree in the field of Mechanical Engineering. The subject of the doctoral thesis must be either specific to the specializations of the faculty and with a topic close to or related to the specific of the disciplines within the vacant position. The candidate must have very good organization and communication skills, as well as availability for traveling to scientific events. Publication in national and/or international publishing houses, as author or co-author, of specialized books with ISBN, whose subject matter is either in the field of the disciplines from the vacant position, or in similar fields, is an advantage. The candidate must prove the activity of publishing the research results (author/co-author of books, book chapters, articles, and/or patents or patent applications) in the field of the vacant position or in related fields. These results also demonstrate the candidate's ability to coordinate students in scientific research activities, to complete the diploma/ dissertation assignments, or to participate in student communication sessions. In addition to teaching and research activities, the candidate must be involved in all activities carried out in the department, including coordinating diploma and master's theses to complete and master's studies, promotion of the faculty's study programs etc. 	

Specific requirements	 minimum 6 years of university teaching experience; membership in at least 1 scientific research contract won through competition; enrolled in a postdoctoral programme. Romanian (Native language) 	
Required languages		
Required research experience	Engineering 4-10	

IV. Additional information

Această secțiune este opțională.

71000000 0000,10110 0000	opționala.
Additional comments	- <i>Ecology</i> - is a subject studied in the third year of the Applied Informatics in Environmental Engineering specialization. It is a synthetic biological science that studies the interaction between organisms, plants and their environment (abiotic and biotic). It deals with concepts related to ecosystem functions, circulation of matter in ecosystems, elements of biodiversity conservation and environmental protection.
	 Environmental protection. Environmental factors investigation – is a subject studied in the third year of the Applied Informatics in Environmental Engineering specialization. It covers concepts related to the impact of human activities on the environment, the general context of the emergence of the concept of sustainable development, monitoring of air, water and soil quality, etc Topography – is a subject studied in the fourth year of the Applied Informatics in Environmental Engineering specialization. It covers notions related to the object and branches of terrestrial measurements, topographic elements of the terrain in the vertical and horizontal plane, determination of topographic quantities, direct and indirect measurement of distances. Computer-assisted biotechnologies - is a subject studied in the fourth year of the Applied Informatics in Environmental Engineering specialization. It covers concepts related to the importance of environmental biotechnologies for society, the main groups of microorganisms used in environmental biotechnologies, biotechnologies for composting organic waste, wastewater treatment, energy production, etc.
	All academic staff at UPB enjoy several benefits, such as training and professional development opportunities, holiday leave, accommodation in UPB residences, banking facilities, access to research infrastructure, and software for remote working.

V. ANEXA: Lista subdomeniilor de cercetare.

Recomandăm selectarea a cât mai multe subdomenii. Cel puțin unul este obligatoriu.

Biological sciences	Communication science	
Biodiversity	Graphic communication	
Biological engineering	Science communication	
Biology		
	Computer science	
Agricultural sciences	3D Modelling	
Soil science	Automatic computing	
Agronomics	Computer architecture	
Agricultural products	Computer hardware	
	Computer systems	
Arts	Cybernetics	
Visual arts	Database management	
	Digital systems	
Astronomy	Informatics	
Astrophysics	Modelling tools	
Cosmology	Programming	
Other		
	Systems design	
Chemistry		
Analytical chemistry	Economics	
Applied chemistry	Applied economics	
Biochemistry	Business economics	
Combinatorial chemistry	Commercia economics	
Computational chemistry	Consumer economics	
Heterogenous chemistry	Econometrics	
Homogeneous chemistry	Industrial economics	
Inorganic chemistry	Market economics	
Instrumental analyses	Marketing	
Instrumental techniques	Management studies	
Molecular chemistry	Production economics	
Organic chemistry	Transport economics	
Physical chemistry		
Other	Other	
Reaction mechanisms and dynamics		
Solar chemistry	Engineering	\boxtimes
Structural chemistry	Airspace engineering	
	Agriculture engineering	\boxtimes
	Biomaterial engineering	
Education	Biomedical engineering	
Learning studies	Chemical engineering	
Research methodology	Civil engineering	
Teaching methods	Communication engineering	
	Computer engineering	
Information science	Control engineering	
Information management	Design engineering	

		Electrical engineering	
Management		Electronic engineering	
		Industrial engineering	\boxtimes
Mathematics		Knowledge engineering	
Combinatorial analysis		Materials engineering	
Computation mathematics		Mechanical engineering	\boxtimes
Discrete mathematics		Microengineering	
Chaos theory		Nuclear engineering	
Applied mathematics		Precision engineering	
Algebra		Process engineering	\boxtimes
Algorithms		Projects engineering	
Geometrics		Simulation engineering	
Mathematical analysis		Sound engineering	
Probability		Surveying engineering	
Statistics		Systems engineering	
Mathematical logic			
Number theory		Physics	
		Quantum mechanics	
Technology		Relativity	
Chemical technology		Solid state physics	
Energy technology		Neutron physics	
Environmental technology		Electronic physics	
Future technology		Mathematical physics	
Electrical technology		Metrology	
Dating techniques		Statics	
Communication technology		Statistical physics	
Computer technology		Surface physics	
Construction technology		Thermodynamics	
Graphic techniques		Electromagnetism	
High vacuum technology		Optics	
Space technology		Condensed matter properties	
Standardization of technologies		Acoustics	
Telecommunications technology		Classical mechanics	
Sound technology		Computational physics	
Safety technology		Chemical physics	
Production technology		Biophysics	
Quantum technology		Applied physics	
Remote sensing			
Transport technology		Medical sciences	
Vacuum technology			
Water technology		Political sciences	
Knowledge technology		Science and society	
Laboratory technology		Policy studies	
Marine technology		Public awareness of science	
Internet technology		Public policy	
Interface technology			
Industrial technology		Sociology	
Information technology		Sociology of enterprise	

Instrumentation technology	Social shaping of technology	
Materials technology		
Measurement technology		
Nanotechnology		
Nuclear technology		
Optronics		
Mining		
Military technology		
Medical technology		
Micro-technology		

Universitatea Politehnica din București Facultatea de Ingineria Sistemelor Biotehnice Departamentul Sisteme Biotehnice Informații concurs post nr. 35 pe perioadă nedeterminata

Universitate/	Universitatea Politehnica din Bucuresti
Facultate/	Facultatea de Ingineria Sistemelor Biotehnice
Departament	Departamentul Sisteme Biotehnice
Poziția în statul de funcții	35
Funcție	Asistent
Disciplinele din planul de învăţământ	Metode numerice; Sisteme avansate pentru dozarea și ambalarea produselor; Proiectare asistată de calculator; Inteligență artificială; Proprietăți fizice ale materialelor agroalimentare; Management tehnic avansat în sisteme biotehnice; Modelarea și simularea sistemelor biomecatronice; Instalații automate în industria alimentară; Sisteme automate de conducere a proceselor din industria alimentară; Proiectare asistată în ingineria mediului 2; Ambalaje și design în industria alimentară; Mașini și instalații pentru prelucrarea legumelor și fructelor; Informatică aplicată; Sisteme de transport și depozitare a produselor agroalimentare.
Domeniu ştiinţific	Inginerie mecanică
	Activități specifice postului:
Descriere post	Asistentul universitar desfășoară seminarii, laboratoare sau lucrări practice cu studenții. Acesta are misiunea de a asista titularii de curs în toate activitățile de predare, de aplicare a cunoștințelor și de evaluare. De asemenea, are în obiectul său de activitate realizarea unei cercetări științifice de calitate și aducerea rezultatelor acesteia în comunitatea științifică, prin publicații sau comunicări. Asistentul este cel care realizează majoritatea activităților didactice cu studenții (aplicații).
Atributiile/activitatile aferente	 Atribuţiile/activităţile aferente postului scos la concurs: colaborare permanentă cu titularul de curs; activităţi de seminar, proiecte de an, lucrări practice și de laborator; îndrumare de proiecte, lucrări de licenţă, practică productivă și cercetare știinţifică; executarea de cercetări ştiinţifice; monitorizarea activităţil de informare bibliografică și de pregătire aplicativă a studenţilor; conducerea activităţilor didactice; activități de evaluare a performanţelor prin note sau calificative; consultaţii, îndrumare a cercurilor ştiinţifice studenţeşti.
Salariul minim de incadrare	 în conformitate cu prevederile din Legea-cadru nr. 153 din 28 iunie 2017privind salarizarea personalului plătit din fonduri publice
Înscrierea la concurs	Conform calendarului concursului https://posturivacante.upb.ro/didactice/
Data susținerii probelor Locul susținerii	
Comunicare a rezultatelor	Ziua desfășurării ultimei probe de concurs conform programării probelor
Perioadă de contestații	3 zile lucrătoare după comunicarea rezultatelor conform calendarului concursului (exclusiv pentru nerespectarea procedurilor legale de concurs)

	DISCIPLINELE	
	Metode numerice	
	Informatică aplicată	
	Management tennic avansat in sisteme biotennice	
	Motodo numerico	
	1 Pozolvorog ocustiilor poliniaro	
	2 Derivarea numerică	
	Bibliografie:	
	1. Maican Edmond. Metode numerice, suport de curs electronic.	
	https://curs.upb.ro/2022/course/view.php?id=6111	
	2. Chapra, S.C., Canale, R.P., Numerical methods for engineers, McGraw-Hill, Inc.,	
	New York, 2015, ISBN 13: 9780073397924	
	3. Hutchinson I.H., A Student's Guide to Numerical Methods, Cambridge University	
	Press, 2015, ISBN 13: 9781107095670	
	Informatică anlicată	
	1 Copierea liniară și circulară a sabloanelor	
	2. Asamblări complexe	
	Bibliografie:	
	1. Constantin G. A. – Proiectare asistată de calculator, suport curs in fomat	
	electronic, Editia 2022, https://curs.upb.ro/2022/course/view.php?id=463	
Tematica probelor de	2. E. Maican, SolidWorks – Modelare 3D pentru ingineri, Ed. Printech, Bucureşti,	
concurs	2006. 2. Liviu Staigo, Doponul digital în arbitactură, Rugurești 2011, ISBN 078-072-0	
	3. Liviu Stolca – Desenui ulgitai in anniectura, bucuresti 2011, 13bit 978-973-0- 10574-2	
	4. Filip V., Marin C., Gruionu L., Negrea A., proiectarea, modelarea, simularea	
	sistemelor mecanice utilizând SolidWorks, CosmosMotion și CosmosWorks,	
	Valahia University Press, Târgoviște, 2010	
	Management tehnic avansat în sisteme biotehnice	
	1. Sisteme inteligente ale agriculturii de precizie	
	2. Sisteme de conectare și comunicare în ferme	
	Bibliografie:	
	1. Biris Sorin-Stefan, Management tehnic avansat in sisteme biotehnice, suport de	
	curs electronic, https://curs.upb.ro/2022/course/view.php?id=???	
	2. Norbert Schlingmann, Communications Networking on Agricultural Machinery,	
	University of Cologne, 2016.	
	3. Ancha Srinivasan, Handbook of Precision Agriculture. Principles and	
	Applications, Food Products Press®, The Haworin Press, Inc. N.Y., 2006.	
	Agricultural Methods. Springer Nature Singapore Pte Ltd. 2020	
	5. Hermann J. Heege. Precision in Crop Farming. Site Specific Concepts and	
	Sensing Methods: Applications and Results. Springer Dordrecht Heidelberg	
	New York London, 2013,	
	Candidatul va fi evaluat de către comisia de concurs din perspectiva:	
	a) relevanței și impactului rezultatelor științifice;	
Descrierea procedurii de concurs	 b) capacitatii candidatului de a îndruma studenţi sau tineri cercetători; 	
	c) competenței didactice;	
	d) capacitatii de a transfera cunoștințele sale către mediul economic sau social ori de a	
	populariza proprine rezultate și ințince,	
	funcție de specificul domeniului:	
	f) capacitatii de a derula sau conduce projecte de cercetare-dezvoltare:	
	g) experienței profesională în alte instituții decât UPB	
lista completa a	Conform art. II.5 din Metodologia privind ocuparea posturilor didactice si de cercetare	
documentelor pe care	vacante în UPB	
andidatii trebuie sa le https://posturivacante.upb.ro/wp-		
includa în dosarul de	a în dosarul de content/uploads/2022/02/Metodologie.Concurs.UPBModificata-2022.pdf	
concurs		
adresa la care trebuie	Rectorat UPB, camera R207 (în zilele lucrătoare)	
transmis dosarul do	floarea.dragomir@upb.ro	
concurs		