



Ministerul Educației  
Universitatea POLITEHNICA din București

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

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HR EXCELLENCE IN RESEARCH

## I. Basic information\*<sup>1</sup>

Title*	<b>Asistent universitar perioada determinata, pozitia 35</b>
Offer description*	<p><i>With a tradition of over 50 years, the Department of Mechatronics and Precision Mechanics is one of the four distinctive departments of the Faculty of Mechanical Engineering and Mechatronics within the Politehnica University of Bucharest. The department coordinates three bachelor programs:</i></p> <ul style="list-style-type: none"> <li>- Mechatronics</li> <li>- Precision Engineering and Nanotechnologies</li> <li>- Optometry</li> </ul> <p><i>The students have also the oportunity to continue their studies at a higher level by attending the Master studies with the following programs managed by the department too:</i></p> <ul style="list-style-type: none"> <li>- Advanced Mechatronics</li> <li>- Precision Engineering Applied for Mechatronic Systems</li> <li>- Advanced Optometry</li> </ul> <p><i>The first two cycles of master studies may be continued with a doctoral program in the field of Mechanical Engineering.</i></p> <p><i>In the department there are over 15 laboratories organized for teaching and research purposes, some of them are:</i></p> <ul style="list-style-type: none"> <li>-Mechatronic systems</li> <li>- Actuators, automations and robotics;</li> <li>- Instrumentation and quality management</li> <li>- Manufacturing technologies</li> <li>- Optometry, optomechatronics and biomechatronics.</li> </ul> <p><i>In addition to teaching activities, members of the department of Mechatronics and Precision Mechanics are constantly concerned with research activities. During a long period of time, starting with 1980, there were achieved countless research projects with national and international partners covering a wide field of engineering goals.</i></p> <p><i>Disciplines of the position 35 have the following tuition activities: JAVA Programming Language; Microprocessors and Microcontrollers;Hydronics and Pneutronics; Numerical Methods.</i></p> <p><b>APPLICATION</b></p> <p><i>Before applying, all candidates are invited to read carefully the UPB's Methodology for occupying didactic and research positions: [adresa statică a documentului la zi, în limba engleză]</i></p>
Research field*	Engineering

Type of contract*	Temporary	Job status	Full-time
Hours per week* 40			

<sup>1</sup> Câmpurile marcate cu \* sunt obligatorii.

Application deadline*	13-10-2022, 16-00
Envisaged job starting date*	28-10-2022

<b>Is the job funded through a EU Research Framework Programme?*</b>
<b>Click pentru a selecta o opțiune.</b>
<b>No <input checked="" type="checkbox"/></b>

## II. Hiring information and work location<sup>2</sup>

Faculty*	<i>Inginerie Mecanică și Mecatronică</i>		
Department*	<i>Department of Mechatronics and Precision Engineering</i>		
No. of positions available			
Website	http://www.mecatronica.upb.ro	Contact person e-mail*	alina.spanu@upb.ro
Phone	+40214029115	Mobile phone	

<sup>2</sup> Câmpurile marcate cu \* sunt obligatorii.

### III. Requirements

Required education level	<b>Master or equivalent</b>
Skills/Qualifications	<ul style="list-style-type: none"> <li>- <b>Responsibility</b></li> <li>- <b>Seriousness</b></li> <li>- <b>Team spirit</b></li> <li>- <b>Good knowledge of the following fields: mechanics, mechatronics, precision engineering, programming languages, hydronics, pneutronics, microcontrollers, microprocessors.</b></li> </ul> <p><b>Good skills for working with special engineering software</b></p>
Required languages	<b>Romanian</b> – mother tongue

### IV. Additional information

Additional comments	<i>The candidate has to provide a document issued by the doctoral school he has been enrolled to, certifying his Ph. D candidate status.</i>
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### V. ANEXA: Lista subdomeniilor de cercetare.

Biological sciences	<input type="checkbox"/>	<b>Communication science</b>	<input type="checkbox"/>
Biodiversity	<input type="checkbox"/>	Graphic communication	<input type="checkbox"/>
Biological engineering	<input type="checkbox"/>	Science communication	<input type="checkbox"/>
Biology	<input type="checkbox"/>		
		<b>Computer science</b>	<input type="checkbox"/>
<b>Agricultural sciences</b>	<input type="checkbox"/>	3D Modelling	<input checked="" type="checkbox"/>
Soil science	<input type="checkbox"/>	Automatic computing	<input type="checkbox"/>
Agronomics	<input type="checkbox"/>	Computer architecture	<input type="checkbox"/>
Agricultural products	<input type="checkbox"/>	Computer hardware	<input type="checkbox"/>
		Computer systems	<input checked="" type="checkbox"/>

<b>Arts</b>	<input type="checkbox"/>	Cybernetics	<input type="checkbox"/>
Visual arts	<input type="checkbox"/>	Database management	<input type="checkbox"/>
		Digital systems	<input type="checkbox"/>
<b>Astronomy</b>	<input type="checkbox"/>	Informatics	<input type="checkbox"/>
Astrophysics	<input type="checkbox"/>	Modelling tools	<input checked="" type="checkbox"/>
Cosmology	<input type="checkbox"/>	Programming	<input checked="" type="checkbox"/>
Other			
		Systems design	<input checked="" type="checkbox"/>
<b>Chemistry</b>	<input type="checkbox"/>		
Analytical chemistry	<input type="checkbox"/>	<b>Economics</b>	<input type="checkbox"/>
Applied chemistry	<input type="checkbox"/>	Applied economics	<input type="checkbox"/>
Biochemistry	<input type="checkbox"/>	Business economics	<input type="checkbox"/>
Combinatorial chemistry	<input type="checkbox"/>	Commercial economics	<input type="checkbox"/>
Computational chemistry	<input type="checkbox"/>	Consumer economics	<input type="checkbox"/>
Heterogeneous chemistry	<input type="checkbox"/>	Econometrics	<input type="checkbox"/>
Homogeneous chemistry	<input type="checkbox"/>	Industrial economics	<input type="checkbox"/>
Inorganic chemistry	<input type="checkbox"/>	Market economics	<input type="checkbox"/>
Instrumental analyses	<input type="checkbox"/>	Marketing	<input type="checkbox"/>
Instrumental techniques	<input type="checkbox"/>	Management studies	<input type="checkbox"/>
Molecular chemistry	<input type="checkbox"/>	Production economics	<input type="checkbox"/>
Organic chemistry	<input type="checkbox"/>	Transport economics	<input type="checkbox"/>
Physical chemistry	<input type="checkbox"/>		
Other	<input type="checkbox"/>	Other	<input type="checkbox"/>
Reaction mechanisms and dynamics	<input type="checkbox"/>		
Solar chemistry	<input type="checkbox"/>	<b>Engineering</b>	<input type="checkbox"/>
Structural chemistry	<input type="checkbox"/>	Airspace engineering	<input type="checkbox"/>
		Agriculture engineering	<input type="checkbox"/>
		Biomaterial engineering	<input type="checkbox"/>
<b>Education</b>	<input type="checkbox"/>	Biomedical engineering	<input type="checkbox"/>
Learning studies	<input type="checkbox"/>	Chemical engineering	<input type="checkbox"/>
Research methodology	<input type="checkbox"/>	Civil engineering	<input type="checkbox"/>
Teaching methods	<input type="checkbox"/>	Communication engineering	<input type="checkbox"/>
		Computer engineering	<input checked="" type="checkbox"/>
<b>Information science</b>	<input type="checkbox"/>	Control engineering	<input checked="" type="checkbox"/>
Information management	<input type="checkbox"/>	Design engineering	<input checked="" type="checkbox"/>
		Electrical engineering	<input type="checkbox"/>
<b>Management</b>	<input type="checkbox"/>	Electronical engineering	<input type="checkbox"/>
		Industrial engineering	<input checked="" type="checkbox"/>
<b>Mathematics</b>	<input type="checkbox"/>	Knowledge engineering	<input type="checkbox"/>
Combinatorial analysis	<input type="checkbox"/>	Materials engineering	<input checked="" type="checkbox"/>
Computation mathematics	<input type="checkbox"/>	Mechanical engineering	<input checked="" type="checkbox"/>
Discrete mathematics	<input type="checkbox"/>	Microengineering	<input checked="" type="checkbox"/>
Chaos theory	<input type="checkbox"/>	Nuclear engineering	<input type="checkbox"/>
Applied mathematics	<input type="checkbox"/>	Precision engineering	<input checked="" type="checkbox"/>
Algebra	<input type="checkbox"/>	Process engineering	<input type="checkbox"/>
Algorithms	<input type="checkbox"/>	Projects engineering	<input type="checkbox"/>
Geometrics	<input type="checkbox"/>	Simulation engineering	<input checked="" type="checkbox"/>
Mathematical analysis	<input type="checkbox"/>	Sound engineering	<input type="checkbox"/>

Probability	<input type="checkbox"/>	Surveying engineering	<input type="checkbox"/>
Statistics	<input type="checkbox"/>	Systems engineering	<input checked="" type="checkbox"/>
Mathematical logic	<input type="checkbox"/>		
Number theory	<input type="checkbox"/>	<b>Physics</b>	<input type="checkbox"/>
		Quantum mechanics	<input type="checkbox"/>
<b>Technology</b>	<input type="checkbox"/>	Relativity	<input type="checkbox"/>
Chemical technology	<input type="checkbox"/>	Solid state physics	<input type="checkbox"/>
Energy technology	<input type="checkbox"/>	Neutron physics	<input type="checkbox"/>
Environmental technology	<input type="checkbox"/>	Electronic physics	<input type="checkbox"/>
Future technology	<input type="checkbox"/>	Mathematical physics	<input type="checkbox"/>
Electrical technology	<input type="checkbox"/>	Metrology	<input type="checkbox"/>
Dating techniques	<input type="checkbox"/>	Statics	<input type="checkbox"/>
Communication technology	<input type="checkbox"/>	Statistical physics	<input type="checkbox"/>
Computer technology	<input type="checkbox"/>	Surface physics	<input type="checkbox"/>
Construction technology	<input type="checkbox"/>	Thermodynamics	<input type="checkbox"/>
Graphic techniques	<input type="checkbox"/>	Electromagnetism	<input type="checkbox"/>
High vacuum technology	<input type="checkbox"/>	Optics	<input type="checkbox"/>
Space technology	<input type="checkbox"/>	Condensed matter properties	<input type="checkbox"/>
Standardization of technologies	<input type="checkbox"/>	Acoustics	<input type="checkbox"/>
Telecommunications technology	<input type="checkbox"/>	Classical mechanics	<input type="checkbox"/>
Sound technology	<input type="checkbox"/>	Computational physics	<input type="checkbox"/>
Safety technology	<input type="checkbox"/>	Chemical physics	<input type="checkbox"/>
Production technology	<input type="checkbox"/>	Biophysics	<input type="checkbox"/>
Quantum technology	<input type="checkbox"/>	Applied physics	<input type="checkbox"/>
Remote sensing	<input type="checkbox"/>		
Transport technology	<input type="checkbox"/>	<b>Medical sciences</b>	<input type="checkbox"/>
Vacuum technology	<input type="checkbox"/>		
Water technology	<input type="checkbox"/>	<b>Political sciences</b>	<input type="checkbox"/>
Knowledge technology	<input type="checkbox"/>	Science and society	<input type="checkbox"/>
Laboratory technology	<input type="checkbox"/>	Policy studies	<input type="checkbox"/>
Marine technology	<input type="checkbox"/>	Public awareness of science	<input type="checkbox"/>
Internet technology	<input type="checkbox"/>	Public policy	<input type="checkbox"/>
Interface technology	<input type="checkbox"/>		
Industrial technology	<input type="checkbox"/>	<b>Sociology</b>	<input type="checkbox"/>
Information technology	<input type="checkbox"/>	Sociology of enterprise	<input type="checkbox"/>
Instrumentation technology	<input type="checkbox"/>	Social shaping of technology	<input type="checkbox"/>
Materials technology	<input type="checkbox"/>		
Measurement technology	<input type="checkbox"/>		
Nanotechnology	<input type="checkbox"/>		
Nuclear technology	<input type="checkbox"/>		
Optronics	<input type="checkbox"/>		
Mining	<input type="checkbox"/>		
Military technology	<input type="checkbox"/>		
Medical technology	<input type="checkbox"/>		
Micro-technology	<input type="checkbox"/>		