Universitatea Națională de Știință și Tehnologie POLITEHNICA București

HR EXCELLENCE IN RESEARCH

Formular de publicare în platforma Euraxess a posturilor didactice

v. 13 septembrie 2024

Vă mulțumim anticipat pentru completarea corectă și integrală a acestui formular, care este aproape identic celui online.

Vă rugăm să parcurgeți instrucțiunile de mai sus și indicațiile de completare marcate cu gri în paginile următoare. Respectarea în totalitate a indicațiilor din preambul și din fiecare secțiune/rubrică ne ajută ca anunțurile să fie publicate la timp, fără să mai fie nevoie de reveniri, corecturi, clarificări sau modificări.

Înainte de a ne transmite formularul/formularele dvs., vă rugăm să vă asigurați că:
1. Ați înlocuit tot textul ce în prezent are culoarea gri cu informațiile specifice poziției scoase la concurs.
2. Textul pe care îl completați dvs. va fi doar de culoare neagră, Arial regular, de 11 puncte.
3. Conținutul formularului dvs. este text fără (a) liste automate cu litere sau cifre și fără (b) ghilimele, evidențierile sunt realizate doar prin *cursive/italic* sau **aldine/bold.**
4. Toate rubricile din stânga marcate cu albastru cu fundal gri (obligatorii) conțin informațiile solicitate.
5. Ați selectat opțiunea corectă acolo unde este meniu *drop-down* (*clic pentru....*).
6. Este de fiecare dată menționată corect denumirea actuală în limba engleză a instituției noastre: National University of Science and Technology POLITEHNICA Bucharest.
7. Toate informațiile din document, cu excepția titlului postului, sunt în limba engleză.

Conținutul furnizat de către dvs. îl încărcăm manual, rubrică după rubrică, uneori enunț cu enunț. Din acest motiv este foarte importantă respectarea tuturor indicațiilor de mai sus și păstrarea formatărilor documentului.

Pentru orice întrebări sau neclarități, vă încurajăm să ne contactați la euraxess@upb.ro.

I.   Basic information

Title	**Şef de lucrări (Recognized Researcher, R2)**
	Deţinător/deţinătoare de doctorat
	Position **25**
Offer description	The Faculty of Engineering in Foreign Languages was created in 2002 by transforming the Department of Engineering Sciences (started in 1990) into a faculty of the University POLITEHNICA of Bucharest. The individuality of this faculty is given by the fact that engineering education is given in one of the foreign languages: English, French and German. For more information, the website of the faculty is at http://fils.upb.ro/ .
	The Department of Engineering in Foreign Languages represents the technical department of the faculty. It is made by around 25 academic personnel with competences in engineering and in at least one of the languages English, French and German. There are included two lecturers sent by the French and German states. For more information, the website of the department is at http://dils.upb.ro/ .
	The organizational chart of the department is the list of the subject components covered by the members of the department and by external professionals, where the department is responsible for the delivery of the topics and for quality of the learning.
	The position 25 is Assistant Professor/ Lecturer in the domain of Computer science and covers subjects given in English and French:
	- Computer Architecture (Laboratory) - Méthodes Numériques (Course, Laboratory)
	APPLICATION Before applying, all candidates are invited to read carefully the NUSTPB's Methodology for occupying didactic and research positions: https://posturivacante.upb.ro/wp-content/uploads/2024/04/Methodology-for-occupyng-vacant-didactic-and-research-positions-2024.pdf
Research field	Engineering
	ENGINEERING, Computer engineering, Electrical Engineering, Electronic engineering, Simulation Engineering
	COMPUTER SCIENCE, Computer architecture, Programming

Where to apply
nora.modrangu@upb.ro

II.   Hiring information and work location

Department	Engineering in Foreign Languages
Contact person e-mail	dilsupb@gmail.com
Contact person phone number	+40 21 402 96 06
Department/Centre website	http://dils.upb.ro/
Faculty	**Inginerie în Limbi Straine**
Geolocalizare	Va fi completată de către *Punctul de contact Euraxess*, în funcție de adresa facultății/departamentului.

III.   Requirements

Required education level	Engineering **Ph.D. or equivalent**
Skills/Qualifications	The Lecturer position in the field of Computers, Science, and Information Technology requires a set of well-defined skills and qualifications necessary for effectively carrying out teaching and research activities in Computer Architecture and Numerical Methods. The required competencies include: 1. Knowledge and Understanding. Strong grasp of fundamental concepts, theories, and methods in Computer Science and Information Technology, with an emphasis on their correct application in professional communication. Proficiency in computer architecture, including the structure and operation of computing systems. Understanding of assembly language programming and low-level system interactions. 2. Application of Knowledge in Problem-Solving. Ability to explain and interpret computer system design, architectures, and computational models. Expertise in assembly language programming for microprocessors, with an emphasis on real-world applications. Capability to diagnose and troubleshoot hardware and software issues in computer systems. 3. Evaluation and Analysis. Proficiency in using electronic tools and specific analytical methods to evaluate and optimize the performance

| | of computing systems. Competence in applying standard evaluation criteria for assessing the efficiency, reliability, and limitations of different computing architectures, numerical methods, and software solutions.

4. Project Development and Implementation. Experience in designing and implementing professional projects that integrate both hardware (processors, embedded systems) and software (low-level programming, performance optimization techniques). Ability to develop numerical computing algorithms and apply mathematical methods to solve engineering problems.

This position requires validated skills and technical expertise, rather than general teaching abilities or personality traits. Candidates are expected to demonstrate concrete competencies in computer system architecture and numerical methods, ensuring a high level of academic and professional excellence. |
|---|---|
| Specific requirements | There is needed strong interdisciplinary knowledge in engineering, allowing for the practical application of taught subjects across multiple engineering fields.

A bilingual teacher is required, fluent in English and French, since the subjects are taught in these languages |
| Required languages | ENGLISH, FRENCH

1. ENGLISH Excellent

2. FRENCH Excellent |
| Required research experience | Engineering
4-10. |

IV. Additional information

Website for additional job details	
Benefits	All academic staff at NUSTPB enjoy several benefits, such as training and professional development opportunities, holiday leave, accommodation in NUSTPB residences, banking facilities, access to research infrastructure, and software for remote working.
Eligibility criteria	

Selection process	
Additional comments	The candidates for this position must comply with the minimum required and mandatory standards to award teaching positions in higher education, as stated in the Order of the Minister of National Education and Scientific Research no. 6129/2016. Also, the minimum conditions from the methodology regarding the employment of vacancy teaching and research position in UPB must be met (https://posturivacante.upb.ro/legislatie/).

ANEXA: lista subdomeniilor de cercetare.

Este obligatoriu ca subdomeniile să corespundă unui domeniu de studii specific postului scos la concurs, iar acest domeniu să fie relaționat în mod explicit cu disciplinele din fișa postului.

Agricultural sciences
Agricultural products
Agronomics
Enology
Forest sciences
Phytotechny
Soil science
Temperate agriculture
Tropical agriculture
Zootechnics

Anthropology
Communication anthropology
Cultural anthropology
Ethnology
Medical anthropology
Physical anthropology
Social anthropology

Architecture
Design
Landscape architecture
Naval architecture

Arts
Arts management
Fashions studies
Fine arts
Handicrafts
Performing arts
Visual arts

Astronomy
Astrophysics
Cosmology

Biological Sciences
Biodiversity
Biological engineering
Biology
Botany
Laboratory animal sciences
Nutritional sciences

Zoology

Chemistry
Analytical chemistry
Applied chemistry
Biochemistry
Combinatorial chemistry
Computational chemistry
Heterogeneous catalysis
Homogeneous catalysis
Inorganic chemistry
Instrumental analysis
Instrumental techniques
Molecular chemistry
Organic chemistry
Physical chemistry
Reaction mechanism and dynamics
Solar chemistry
Structural chemistry

Communication sciences
Audio-visual communication
Business communication
Editing
Graphic communication
Journalism
Media studies
Online information services
Public relations
Publishing
Science communication
Speech communication

Computer science
3D modelling
Autonomic computing
Computer architecture
Computer hardware
Computer systems
Cybernetics
Database management
Digital systems
Informatics
Modelling tools
Programming
Systems design

Criminology

Cultural studies
European studies

Middle-Age studies
Regional studies
Renaissance studies
Third world studies

Demography

Economics
Administrative sciences
Agricultural economics
Applied economics
Banking
Business economics
Cadastral survey
Commercial economics
Construction economics
Consumer economics
Cyclical economics
Econometrics
Economic policy
Economic systems
Economic theory
Economics of development
Environmental economics
Financial sciences
Fishery economics
Food economics
Health economics
Home economics
Industrial economics
International economics
Knowledge economy
Labour economics
Labour market economics
Land economy
Local public economics
Macroeconomics
Management studies
Marketing
Microeconomics
Political economy
Production economics
Social economics
Tourism studies
Transport economics
Valuation
Veterinary economics

Educational sciences
Education
Learning studies
Research methodology
Teaching methods

Engineering

Aerospace engineering
Agricultural engineering
Biomaterial engineering
Biomedical engineering
Chemical engineering
Civil engineering
Communication engineering
Computer engineering
Control engineering
Design engineering
Electrical engineering
Electronic engineering
Geological engineering
Industrial engineering
Knowledge engineering
Maritime engineering
Materials engineering
Mechanical engineering
Microengineering
Nuclear engineering
Precision engineering
Process engineering
Project engineering
Simulation engineering
Sound engineering
Surveying
Systems engineering
Thermal engineering
Water resources engineering

Environmental science

Earth science
Ecology
Global change
Natural resources management
Water science

Ethics

Ethics in health sciences
Ethics in natural sciences
Ethics in physical sciences
Ethics in social sciences

Geography

Cartography
Economic geography
Geopolitics
Historical geography
Human geography
Regional geography
Social geography

Geosciences

Geology
Hydrology

History

Ancient history
Archaeology
Art history
Church history
Contemporary history
Economic history
Genealogy
Heraldry
History of agriculture
History of design
History of law
History of performance
History of philosophy
History of religions
History of science
History of social sciences
Local history
Mediaeval history
Modern history
Music history
Numismatics
Palaeography
Political history
Prehistory
Sigillography
Social history

Information science

Archivists
Diplomatics
Documentation
Information management
Library science

Juridical sciences

Agrarian law
Canon law
Comparative law
Criminal law
Environmental law
European law
Finance law
Fiscal law
Health law
Informatic law
International law

Judicial law
Juvenile law
Labour law
Media law
Medical law
Private law
Public law
Roman law
Social law
Transportation law

Language sciences
Language
Linguistic
Philology

Literature
African literature
American literature
Asian literature
Austronesian literature
Comparative literature
European literature
Greek literature
Hamito-Semitic literature
Literary criticism
Writing

Management sciences

Technology
Biotechnology
Chemical technology
Energy technology
Environmental technology
Future technology
Electrical technology
Dating techniques
Communication technology
Computer technology
Construction technology
Graphic technics
High vacuum technology
Space technology
Standardisation of technology
Telecommunications technology
Sound technology
Safety technology
Production technology
Quantum technology

Remote sensing
Transport technology
Vacuum technology
Water technology
Pharmaceutical technology
Knowledge technology
Laboratory technology
Marine technology
Internet technology
Interface technology
Industrial technology
Information technology
Instrumentation technology
Materials technology
Measurement technology
Nanotechnology
Nuclear technology
Optronics
Mining technology
Medical technology
Military technology
Micro-technology

Religious studies
Biblical studies
Church studies
Comparative religion
Non-Christian religions
Pastoral studies.

Sociology
Sociology of religion
Sociology
Sociology of labour enterprise
Sociology of enterprise
Social shaping of technology
Societal behaviour
Socio-economic research
Social changes
Rural sociology
Educational sociology
Macrosociology

Psychological sciences
Psychology
Psycho-analytic studies
Behavioural sciences
Cognitive sciences

Neurosciences
Neurology
Neurophysiology
Neuropsychology

Neuroinformatics
Neurochemistry
Neurobiology

Pharmacological sciences
Clinical pharmacology
Cosmetology
Pharmacognosy
Pharmacy
Toxicology
Veterinary pharmacology

Mathematics
Combinatorial analyses
Computational mathematics
Discrete mathematics
Chaos theory
Applied mathematics
Algebra
Algorithms
Geometry
Mathematical analysis
Statistics
Probability theory
Mathematical logic
Number theory

Philosophy
Ethics
Metaphysics
Epistemology
Aesthetics
Logic
Philosophical anthropology
Epistemology
Phenomenology
Philosophy of law
Philosophy of science
Semiotics
Systematic philosophy

Medical sciences
Cancer research
Epidemiology
Health sciences
Veterinary medicine
Medicine

Political sciences

Science and society
Policy studies
Public awareness of science
Public policy
Governance

Physics
Crystal growth
Quantum mechanics
Relativity
Solid-state physics
Optics
Neutron physics
Electronics
Mathematical physics
Metrology
Statics
Statistical physics
Surface physics
Thermodynamics
Electromagnetism
Condensate matter properties
Acoustics
Classical mechanics
Computational physics
Chemical physics
Biophysics
Applied physics