| REFERENCES AND CRITERIA OF DESCRIPTION | DESCRIPTION | |
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| University | **University „Aurel Vlaicu" of Arad** | |
| Faculty | Faculty of Exact Sciences | |
| Department | Department of Mathematics-Informatics | |
| Position in the job title list | **No 15** | |
| Academic position | Associate Professor | |
| Academic disciplines in the curricula | Operating System<br>Object Oriented Programming<br>Automata, computation and complexity<br>Information Security | |
| Scientific Area | **Computer Science** | |
| Description of the vacant position | Associate Professor position no. 15 includes lectures and laboratory activities related to the following topics.<br>**-Operating System** (2 hours lecture and 2 hours laboratory/week) – 2nd Semester - Study program Computer Science (in English)<br>**-Object Oriented Programming** (2 hours lecture and 4 hours laboratory/week) – 1st Semester - Study program Computer Science<br>**-Object Oriented Programming** (2 hours lecture/week) – 2nd Semester - Study program Computer Science (in English)<br>**-Automata, computation and complexity** (2 hours lecture/week) – 2nd Semester - Study program Computer Science<br>**Information Security** (2 hours lecture and 2 hours laboratory/week) – 2nd Semester - Study program Computer Science (in English)<br>Besides didactic activities related to the subjects of the curriculum, scientific research activities are also included in the job description. | |
| Related duties / activities | **Didactic activities**<br>a) Teaching activities, practical and laboratory work, guiding projects;<br>b) Guidance for BA dissertation;<br>c) Other activities, practical and research activities that are include in the curricula;<br>d) Evaluation activities;<br>e) Tutoring, counselling, mentoring scientific students' activities;<br>f) Participation in activities organized by the department, faculty and/or university;<br>g) Participation in councils and commissions;<br><br>**Research activities**<br>a) Research activities in the main field of activity or in interdisciplinary fields;<br>b) Research activities within the Research Centre;<br>c) Attendance at conferences and other scientific events to disseminate research results;<br>d) Initiation, unfolding and monitoring of programs and projects;<br>e) Writing and publishing articles, treaties, monographs and books, as determined internally. | |

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| **Minimum wage for classification** | 4485 lei |
| **Announcement publication date in the Official Monitor** | **Official Monitor, no. 1242 din 3.12.2021** |
| **Registration period** | 3.12.2021 - 17.12.2021<br>17.01.2022 – 28.01.2022 |
| **Date and time of lecture** | 15.02.2022, Tusday, ora 10 am |
| **Place for the lecture** | „Aurel Vlaicu" University of Arad, Complexul M, Micălaca, First floor, room 104 |
| **Date for the contest tests, including lectures, courses etc.** | **Public lecture on professional achievements and a career development plan:**<br>15.02.2022, Tusday, 10 am<br><br>**Didactic/scientific lecture** (in case of candidates who do not come from higher education and in case two or more candidates are registered for the competition):<br>15.02.2022, Tusday, 11 am |
| **Results communication date** | 15.02.2022 |
| **Results appeal period** | 16.02.2022 – 18.02.2022 |
| **Job application contest topics** | 1. Unix: file system<br>2. Web applications security: vulnerabilities and protections<br>3. Types of inheritance in object-oriented programming<br>4. NP-complete problems : examples and application<br><br>Bibliography:<br>1. W.R. Stevens, S.A. Rago, *Advanced Programming in the UNIX Environment*, 3rd Edition; Addison Wesley, 2013;<br>2. M. Garells, *Introduction to Linux – The begginers guide*, 3rd edition, Fultus Co., 2010;<br>3. D. Stuttard, *The Web Application Hacker's Handbook: Finding and Exploiting Security Flaws*, 2nd Edition, John Wiley & Sons, 2011;<br>4. Andrew Hoffman, *Web Application Security: Exploitation and Countermeasures for Modern Web Applications 1st Edition*, O'Reilly Media; 1st edition (March 24, 2020);<br>5. M. Sipser, *Introduction to the Theory of Computation,* 2nd edition, Thomson Course Technology 2006.<br>6. Matt Weisfeld, *Object-Oriented Thought Process, The (Developer's Library) 5th Edition*, Addison-Wesley Professional; 5th edition (April 30, 2019). |
| **Job application contest procedures** | For the competition for the position of associate professor, item no.15 of the State of functions of the Mathematics - Informatics Department, the applicant must cumulatively fulfill the requirements:<br>a) the national minimal standards related to the associate professor position;<br>b) the standards of the university related to the associate professor position listed in the Methodology of "Aurel Vlaicu" University of Arad;<br>c) PhD in Computer Science |

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| | d) holding a master's degree/certificate of graduation from the psycho-pedagogical module or other equivalent documents;<br><br>e) holding an English language certificate at least level B1 or other proof of knowledge of English;<br><br>The competition for the position of associate professor consist of:<br>  -  The analysis of the candidate's file;<br>  -  Deliver a public lecture for minimum 45 minutes in which the candidate presents the most significant professional results and the university career development plan. This sample contains necessarily a session of questions from the committee and the public.<br>  -  Deliver a scientific / didactic lecture on a theme of the structure of the job set by the committee according to the UAV's own methodology (in the case of candidates not coming from higher education and in case two or more candidates are enrolled in the competition) . Its theme is announced to the candidates with 48 hours before the contest by e-mail and on the website of U.A.V.;<br><br>The evaluation committee members assess the applicant, taking into consideration the following aspects:<br>- The fulfillment of minimal CNATDCU and UAV criteria;<br>- The relevance and the impact of the applicant's scientific results;<br>- The applicant's ability to coordinate students and young researchers;<br>- The applicant's teaching abilities;<br>- The applicant's ability to disseminate knowledge and research results towards the economic and social environment or to disseminate his own scientific achievements;<br>- The applicant's ability to work as a team member and the efficacy of his scientific collaborations, taking into consideration the specifics of the applicant's field;<br> - The applicant's ability to lead research and development projects;<br>- The applicant's professional experience outside U.A.V. |
| **List of documents** | a) the cover page of the file in accordance with the model in Annex 12<br>b) Check list of the file (list of the documents in the file of the contest, no. of pages of documents and document page that is found) the model of Annex 13.<br>c) Application form, signed by the applicant; includes a declaration regarding the validity of information supplied, registered at the Registry of U.A.V. (Annex 2).<br>d) Plan towards the development of the applicant's university career from a scientific as well as a didactic perspective; the plan is to be prepared by the applicant, with a maximum extent of 10 pages, and is considered to be one of the main evaluation criterion. The document is signed on each page in the bottom right corner with a blue pen or ink.<br>e) Printed and digital copy of the applicant's CV, drawn up in accordance with Article 15. The document is signed on each page in the bottom right corner |

with a blue pen or ink.

**f)** List of published works – printed and digital copies, drawn up in accordance with Article 16. The document is signed on each page in the bottom right corner with a blue pen or ink.

**Note: for the research position the list of published papers will be accompanied by one copy of at least 5 representative papers.**

**g)** University standards compliance form according to the methodology from Annex 4: the criteria of the compliance form are displayed on the university`s web page. The compliance form is to be signed on each page in the bottom right corner with a blue pen or ink. Proof of criteria compliance will be attached (electronic format requested).

**h)** Documents regarding the PhD title, legalized copy of PhD diploma- if the original form is not recognized in Romania the applicant must provide validation proof.

**i)** Documents regarding the certificate of entitlement for doctoral supervisors in the field of disciplines in the competition post (for candidates for the position of university professor): copy of the certificate of entitlement according to its original or legalized;

**j)** The abstract of the PhD/habilitation thesis in Romanian and other widely used language, with a maximum length of 1 page per each language;

**k)** Personal Statement regarding incompatibility issues with the applied academic position as stated under Law Nr. 1/2011, or the lack of such issues (Annex 8);

**l)** Copy of the Monitorul Oficial where the announcement of the contest was posted;

**m)** Legalized copies of other certificates attesting the applicant`s qualifications: bachelor degree, university degree, master`s degree or other associate degrees (accompanied by the supplement to the diploma / master sheet) - copies according to its original or legalized;

**n)** Copy of the ID card. If the applicant does not have an ID card, a copy of the passport or other relevant identification document is accepted;

**o)** In case the applicant changed his/her name, copies attesting such modifications must be provided;

**p)** A maximum of 10 publications, patents or other relevant scientific works supplied in electronic format and selected by the applicant as being representative for his professional achievements. The maximum of 10 papers in extenso will be filed in electronic format after scanning in * .pdf format.

**q)** Legalized copy of the birth certificate;

**r)** List of at least 3 names and contact addresses of personalities in this field who drafted letters of recommendation regarding the candidate's professional qualities and the letters of recommendation, for the positions of Sssociaded Professor and Professor, drafted according to Art.17;

**s)** CD announced job folder (it shall contain all documents physically filed (those provided under letters d-q) and those provided in electronic format). Documents contained in the folder will be scanned in * .pdf format.

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| | Note: for the researcher are also submitted: legalized copy after the work card or copy of the General Register of Employees Evidence to prove work experience.<br><br>*All documents previously provided as legalized copies can be filed in plain copy if confirmation is made with the original at the headquarters of our university by the designated person within the university secretariat.* |
| **Address for the job applications** | **„Aurel Vlaicu" University of Arad, bdul. Revoluției nr. 77, jud Arad, cod 310130** |
| **Committee** | **President:** PhD. Associate Professor  Marius - Lucian TOMESCU - „Aurel Vlaicu" University of Arad<br><br>**Members:**<br>PhD Professor . habil. Laurențiu Ferucio ȚIPLEA - "Alexandru Ioan Cuza" University of Iași<br>PhD Professor habil. Bogdan GROZA - Politehnica University of Timisoara<br>PhD Associate Professor Ciprian-Bogdan CHIRILĂ - Politehnica University of Timisoara<br>PhD Professor Valeriu BEIU  - „Aurel Vlaicu" University of Arad<br><br>**Substitute members:**<br>PhD Professor Gabriela MIRCEA  - West University of Timisoara<br>PhD Professor Dominic BUCERZAN  - Aurel Vlaicu" University of Arad |
| **Appeal resolution committee** | **President:**<br>PhD Professor Alexandru POPA- Universitatea „Aurel Vlaicu" din Arad<br><br>**Members:**<br>PhD Professor . Gabriela KELEMEN - Universitatea „Aurel Vlaicu" din Arad<br>PhD Professor Petru TĂRCHILĂ - Universitatea "Aurel Vlaicu" din Arad<br>PhD Professor Ciprian PREDA - Universitatea de Vest din Timişoara<br>PhD Professor Ioan Csosz - Universitatea de Ştiinţe Agricole şi Medicină Veterinară a Banatului Timişoara<br><br>**Substitute members:**<br>PhD Professor  Ionel BARBU - Universitatea „Aurel Vlaicu" din Arad<br>PhD Professor Ioan NEAGU - Universitatea "Lucian Blaga" din Sibiu |
| **Methodology** | M03 Methodology of  „Aurel Vlaicu" University of Arad posted on its site. |

Note: Announcements on jobs of associated prodessor, professor, second degree scientific researcher and first degree scientific researcher will also be published in English.

Drafted,

Deean ,

Head of Department,

PhD Associate professor  Marius-Lucian TOMESCU

PhD Lecturer Lorena-Camelia POPA