

<b>Field name</b>	<b>Description</b>
<b>University</b>	<b>"Aurel Vlaicu" University from Arad</b>
Faculty	<b>Faculty of Engineering</b>
Department	<b>Department Automatic, Industrial Engineering, Textiles and Transports</b>
The position in the state of functions	<b>No. 44</b>
Function	<b>Lecturer</b>
Disciplines from the curriculum	<ol style="list-style-type: none"> <li><b>1. Materials science</b></li> <li><b>2. Materials science and engineering</b></li> <li><b>3. Machine building technology 1</b></li> <li><b>4. Machine building technology 2</b></li> <li><b>5. Technological devices</b></li> </ol>
The scientific field	Industrial engineering
Description of the position put out to competition	<p><b>The position of Lecturer, position 44, consists of:</b></p> <ol style="list-style-type: none"> <li><b>1. Materials Science:</b> 1st year, 1st semester, specialization IS, TCM, license, 2 hours lecture, 2 hours laboratory.</li> <li><b>2. Materials science and engineering:</b> 1st year, 1st semester, AR specialization, bachelor's degree, 2 hours course, 2 hours laboratory.</li> <li><b>3. Machine building technology 1:</b> IV year, I semester, TCM specialization, license, 2 laboratory hours.</li> <li><b>4. Machine building technology 2:</b> IV year, II semester, TCM specialization, bachelor's degree, 2 hours project.</li> <li><b>5. Technological devices:</b> third year, second semester, TCM specialization, bachelor's degree, 2 hours lecture, 1 hour laboratory, 1 hour project.</li> </ol>
Attributions/activities related to the position put up for competition, including the didactic norm and the types of activities included in the didactic norm	<ol style="list-style-type: none"> <li>1. Teaching activities: <ol style="list-style-type: none"> <li>a) Participation in councils and commissions in the interest of education.</li> <li>b) Seminar activities, practical works, laboratory and course;</li> <li>c) Guiding the elaboration of semester project works;</li> <li>d) Participation in the activities organized by the department, faculty and/or university</li> <li>e) Other didactic, practical and scientific research activities included in the curriculum;</li> <li>f) Evaluation activities;</li> <li>g) Tutoring, consultations, guidance of student scientific circles;</li> <li>h) Scientific and methodical training activities and other activities in the interest of education;</li> </ol> </li> <li>2. Research activities: <ol style="list-style-type: none"> <li>a) Activities within the research center provided for in the internal research plan;</li> </ol> </li> </ol>

	<p>b) Initiating, running and monitoring programs and projects;</p> <p>c) Participation in conferences, scientific sessions for the dissemination of research results;</p> <p>d) Elaboration and publication of articles, treatises, monographs and specialist books provided for in the internal plan.</p>
The minimum salary for the position at the time of employment	6351 lei
<b>CONTEST CALENDAR</b>	
Date of publication of the announcement in the Official Monitor of Romania part III	<b>Official Monitor no. 143 of 30.04.2024</b>
Registration start and end period	April 30, 2024 - June 28, 2024
The date, day of the week and time of taking the competition tests	<p><b>18.09.2024, Wednesday, 10.00 a.m. didactic/scientific lecture 1 hour</b></p> <p><b>18.09.2024, Wednesday, 11.00 – public lecture 1 hour</b></p>
The place of taking the evidence	<b>"Aurel Vlaicu" University of Arad, Faculty of Engineering, str. Elena Drăgoi, no. 2, Arad Room 304</b>
The data for supporting the competition tests, including the lectures, courses, etc.	<b>18.09.2024</b>
Date of communication of the results	<b>18.09.2024</b>
The period of beginning and end of appeals	<b>19.09.2024 - 23.09.2024 (on weekdays)</b>
The bibliography and topics of the competition tests, including the lectures, courses or other such topics, or the topics from which the competition committee can choose the topic of the tests actually held	<p><b>Bibliography:</b></p> <ol style="list-style-type: none"> <li>1. D. Constantinescu, DI Văireanu, I. Maior, Materials Science, MatrixRom, Bucharest, 2004.</li> <li>2. Gangane, Kalpana, and Dipak Prakash Patil. "A Survey on Downtime Cost of Equipment Used in a Construction Industry." , 2018.</li> <li>3. Chandra, Sathvik Sharath, Samad ME Sepasgozar, and others "Assessing Factors Affecting Construction Equipment Productivity Using Structural Equation Modeling." ,2023.</li> <li>4. Wayne S. Salo Process Control Plan: A Practical Guide to Implementation" 2005</li> <li>5. Hubert Mèmeteau, Bruno Collomb, "Technologie fonctionnelle de l'automobile", 2024</li> <li>6. Brent D. Patterson Advanced Product Quality Planning (APQP) and Manufacturing Project Guide" 2018</li> <li>7. James R. Evans and William M. Lindsay "Total Quality Management: Methods and Practices" 2014</li> </ol> <p><b>Theme:</b>  Properties and behavior of materials in mechanical applications; Advanced Materials for Machine Building; Manufacturing processes for materials; Analysis and testing of materials for performance and durability;</p>

	<p>GR&amp;R analyzes to verify repeatability and reproducibility; Applicability of quality tools in industrial processes such as PPAP, APQP, 8D Report, FMEA, Control Plan; The PDCA concept with applicability in industrial processes, Continuous improvement of industrial processes; Flowcharts, Ishikawa Diagrams, Patetto Diagrams; Development of new technologies for machines and equipment; Robotics and industrial automation; Sensors and monitoring systems; Virtual reality and simulation in design and testing; Mechanical design and engineering; Propulsion systems and transmissions; Automation and control; Safety and durability systems; Sustainable and ecological development in construction; Mechanical design and engineering.</p>
<p>Description of the competition procedure</p>	<p>For the position of Head of Works, the following are cumulatively required:</p> <ul style="list-style-type: none"> <li>a) holding a doctor's degree in the field of the job's disciplines or in a related field;</li> <li>b) possession of the didactic master's degree/ certificate of completion of the psycho-pedagogical module or other equivalent documents;</li> <li>c) meeting the minimum standards of the university for the occupation of teaching positions, specific to the teaching position of university lecturer/head of works, provided by its own methodology, in Annex 1.</li> </ul> <p>The competition committee evaluates the candidate from the perspective of the following aspects:</p> <ul style="list-style-type: none"> <li>a) meeting the criteria imposed by the minimum standards of the university by analyzing the verification sheet for meeting the minimum standards of the university, which will be signed by all committee members (the president will sign each page of the respective sheet).</li> <li>b) the relevance and impact of the candidate's scientific results;</li> <li>c) the candidate's ability to guide students or young researchers;</li> <li>d) the didactic skills of the candidate;</li> <li>e) the candidate's ability to transfer his knowledge and results to the economic or social environment or to promote his own scientific results;</li> <li>f) the candidate's ability to work in a team and the efficiency of his scientific collaborations, depending on the specifics of the candidate's field;</li> <li>g) the candidate's ability to lead research - development projects;</li> <li>h) the candidate's professional experience in institutions other than UAV..</li> </ul> <p>The professional competences of the candidate are evaluated by the competition committee based on the competition file and, additionally, through one or more competition tests, including lectures, holding courses or</p>

	<p>similar, according to its own methodology, UAV announces on the competition web page and the UAV web page, the day, time and place of the competition tests.</p> <p>For the position of head of works, the candidate will deliver a didactic/scientific lecture on a topic from the position structure established by the committee and announced to the candidates 48 hours before the presentation by e-mail and on the UAV website in addition, the candidates they will give a public lecture of at least 45 minutes in which they present their most significant previous professional achievements and their future university career development plan. This sample must also include a session of questions from the committee and the public.</p>
<p>The complete list of documents that candidates must include in the competition file according to the provisions and models of UAV's own Methodology</p>	<p><b>a)</b> the cover page of the file according to the model in Annex 12</p> <p><b>b)</b> File description (list of documents from the competition file, number of documents' tabs and the page where the document is found) according to the model in Annex 13.</p> <p><b>c)</b> the competition registration application, signed by the candidate, which includes a declaration on his own responsibility regarding the veracity of the information presented in the file, registered at the UAV Registry (Annex 2).</p> <p><b>d)</b> a proposal for the development of the candidate's university career both from a didactic point of view, in the case of teaching positions, and from the point of view of scientific research activities; the proposal is drawn up by the candidate, includes a maximum of 10 pages and is one of the main criteria for deciding the candidates. The document is signed on each page in the lower right corner with a pen or blue ink.</p> <p><b>e)</b> candidate's curriculum vitae in printed and electronic format, drawn up according to Art. 15. The document is signed on each page in the lower right corner with a pen or blue ink.</p> <p><b>f)</b> the candidate's list of works, in printed and electronic format, drawn up according to Art 16. The document is signed on each page in the lower right corner with a pen or blue ink.</p> <p><b>Note: for research positions, the list of published works will be accompanied by one copy of at least 5 representative works.</b></p> <p><b>g)</b> the verification sheet for meeting the university's standards for submission to the competition, the standard format of which is provided by its own methodology in Annex 4. The verification sheet is completed and signed by the candidate on each page in the lower right corner with a pen or blue ink . This will be accompanied by proof of meeting the criteria, in electronic format.</p>

**h)** documents related to the possession of the doctor's degree: copy in accordance with the original or legalized copy of the doctor's degree and, in case the original doctor's degree is not recognized in Romania, the certificate of its recognition or equivalence;

**i)** documents related to the possession of the qualification certificate in the field of the competitive position (for candidates for the position of university professor): copy of the qualification certificate in accordance with the original or legalized;

**j)** the summary, in Romanian and in a language of international circulation, of the doctoral thesis and/or, as the case may be, of the habilitation thesis, on a maximum of one page for each language;

**k)** declaration on the candidate's own responsibility indicating the situations of incompatibility provided for by Law no. 1/2011 in which it would be in case of winning the competition or the absence of these incompatibility situations (Annex 8);

**l)** the copy according to the Official Gazette in which the position was published;

**m)** copies of other diplomas certifying the candidate's studies: baccalaureate diploma or equivalent; bachelor's degree or equivalent; master's degree (accompanied by the supplement to the diploma / transcript) - copies according to the original or legalized;

**n)** copy of the identity card or, if the candidate does not have an identity card, of the passport or another identity document drawn up for an equivalent purpose to the identity card or passport;

**o)** if the candidate has changed his name, copies of the documents attesting to the name change — marriage certificate or proof of name change - copy in accordance with the original or legalized;

**p)** list of a maximum of 10 publications, patents or other works of the candidate, selected by him and considered to be the most relevant for his own professional achievements. The maximum 10 papers, in full, will be submitted to the file and in electronic format after scanning them in \*.pdf format.

**q)** birth certificate - legalized copy;

**r)** the list with the names and contact addresses of at least 3 personalities in the field who developed letters of recommendation and the letters of recommendation, for the positions of university lecturer and university professor, drawn up con fart. 17;

**s)** Competition file CD (it will contain all the documents physically submitted to the file (those provided for in letters dq) and those provided in electronic format). The documents included in the file will be scanned in \*.pdf format.

**Note:**For research positions, the following are also submitted:

	Certified copy of the work book or copy extracted from REVISAL to prove seniority  <b><u>All documents provided previously as legalized copies can be submitted to the file in simple copies if confirmation is made with the original at the headquarters of our university by the person appointed from the university secretariat.</u></b>
The address to which the tender file must be sent	<b>"Aurel Vlaicu" University of Arad, Arad, Bdul. Revolution no. 77, Arad county, code 310130</b>
Competition commission	
The appeals settlement commission	
Methodology	According to the UAV methodology, M03

Note: The announcements regarding the positions of university lecturer, university professor, scientific researcher degree II and scientific researcher degree I will also be published in English

Dean,  
  
**Univ. Conf. Dr. Eng. Glăvan Dan Ovidiu**

Drawn up,  
  
Department Director  
  
**Univ. Conf. Dr. Eng. Muller Valentin**