

Field name	Description
University	„Aurel Vlaicu” University in Arad
Faculty	Engineering
Department	The Department for Automatics and Industrial Engineering, Textiles and Transportation
Position in the organisational chart	Position 22
Academic Position	Associate professor
Disciplines taught from the curriculum	1. Welding technology 1, 2. Hydraulic and pneumatic drives 3. Fluid mechanics 4. Thermotechnics/ Thermotechnics and thermal machines
Scientific Field	Industrial Engineering
Description of open position	The position of Associate Professor, position no. 22, consists of: 1. Welding technology 1: discipline carried out in year III, semester II, IS specialization, 3C; 2. Hydraulic and pneumatic drives: discipline taken in the second year, second semester, AR, IS specialization, 2C+1L; 3. Fluid Mechanics: subject taken in the second year, second semester, TCM specialization, 2C +1L, 4. Thermotechnics /Thermotechnics and thermal machines: discipline taken in the second year, second semester, AR, TCM, IS specialization, 3C; 1L- AR specialization
Related responsibilities/tasks	1. Teaching activities: a) Seminar activities, practical and laboratory work, guidance of year projects; b) Other teaching, practical and scientific research activities included in the curriculum; c) Evaluation activities; d) Tutoring, consultations, guidance of student scientific circles; e) Scientific and methodological training activities and other activities in the interest of education; Guidance of the development of dissertation works; f) Participation in activities organized by the department, faculty and/or university; g) Participation in councils and committees in the interest of education. 2. Research activities: a) Activities within the research centre provided for in the internal research plan; b) Initiation, development and monitoring of programs and projects; c) Participation in conferences, scientific sessions for the dissemination of research results;

	d) Elaboration and publication of articles, treatises, monographs and specialized books provided for in the internal plan.
The minimum salary for the position at the time of employment.	7050 lei
<b>COMPETITION CALENDAR</b>	
Date of publication of the opening in the Official Monitor	Official Gazette of Romania, Part III, number 395/28.11.2024
Beginning and closing date for accepting applications	28.11.2024-27.12.2024
Date, day of the week, and time of the competition tests.	<b>Tuesday, 28.01.2025</b> time <b>12-14</b>
Location of the competition exams	„Aurel Vlaicu” University in Arad, Complex „M”, str. Elena Dragoi, nr.2, room 326
Dates of the competition tests, including lectures, courses, etc.	<b>Didactic lecture (if applicable)</b> 28.01.2025 time 13
	<b>Public lecture</b> 28.01.2025 time 12
Date for communicating results	<b>28.01.2025</b>
Beginning and closing dates for appeals	<b>29.01.2025-31.01.2025</b> Time interval 9:00-12:00
Bibliography and Topics for the competition exams, including lectures, courses, or similar, and the topics from which the competition committee may choose the actual exam topics	The topic of the didactic lecture: <ol style="list-style-type: none"> <li>1. Elements of fluid mechanics specific to hydraulic transmissions</li> <li>2. Elements of pressure regulation</li> <li>3. MIG/MAG welding technology with welding applications in the wagon building industry and US ultrasonic welding applications in automotive.</li> <li>4. Thermodynamic processes of vapors</li> <li>5. Calculation of combustion of solid, liquid and gaseous fuels</li> <li>6. Preparation of parts for welding. Support of the melted bath</li> <li>7. Plasma welding</li> </ol> Bibliography:

	<ol style="list-style-type: none"> <li>1. Nicolae Vasiliu, Daniela Vasiliu, Acționări hidraulice și pneumatice, volumul I, București 2004</li> <li>2. Radu Țârulescu, Ovidiu Mihai Crăciun, Elemente de mecanica fluidelor și unele aplicații practice, Editura Universității Transilvania din Brașov, 2009.</li> <li>3. J. Florea, I. Seteanu, G. Zidaru, V. Panaitescu, Mecanica fluidelor și mașini hidraulice; Probleme, Editura Didactică și Pedagogică București 1982</li> <li>4. Marcel Roșca, Alin Casian Blaga, Termotehnica, Editura Universității din Oradea, 2008</li> <li>5. Sudarea prin topire, D. Dehelean, Editura Sudura, Timisoara, ISBN 973-98049, 2010</li> <li>6. Burcă, M.; Negoșescu, S. <b>Sudarea MIG/MAG</b>, Editura Sudura 2002, ISBN 973 – 8359 – 07 – 4</li> <li>7. Dehelean, D. <b>Sudarea prin topire</b>, Editura Sudura, Timișoara 1997, ISBN 973-98049-1-8</li> <li>8. Gliță, Gh., Negoșescu, S. <b>Echipamente pentru sudare</b>, partea I, Editura Lux libris, Brașov 2008, ISBN-13 978-973-131-035-0, pp 69-83</li> <li>9. Safta, V.: <b>Defectoscopie nedistructiv</b> – Editura Sudura, Timișoara 2001</li> <li>10. Vasiliu, N., Vasiliu, D, <b>ACȚIONĂRI ȘI COMENZI HIDRAULICE ȘI PNEUMATICE</b> – Editura UPB, Bucuresti, 2004</li> <li>11. Era, T., Ueyama, T. and Brooks, M. <b>Welding steel sheet with a modified short circuiting process</b>, presented AWS Detroit Section's Sheet Metal Welding Conference XIII, Livonia, Mich., May 14-16, 2008, pp 28-33.</li> <li>12. Pepe, N., Quintino, L., Pires I., Miranda R., Yapp, D., <b>Applications of innovative variants in MIG/MAG welding</b>, IIW Doc.No.XII-1989-10.</li> <li>13. Era, T.; Ide, A.; Uezono, T.; Yamamoto, H.; and Ueyama, T. <b>Spatter reduction of steel sheet welding using controlled bridge transfer (CBT) GMA Process</b>, DAIHEN Corporation, 5-1 Minamisenrioka, Settsu, Osaka 566-0021, Japan, IIW Doc.No.XII-1900-06.</li> <li>14. Era, T.; Ueyama, T. and Brooks, M. <b>Welding Steel Sheet with a modified short circuiting process</b>, AWS Detroit Sectrion's Sheet Metal Welding Conference XIII, Livonia, Mich, 2008, pp 28-33</li> </ol>
Description of the competition procedure	<p>The standards for the position of associate professor are minimum and mandatory requirements for registration in the competition for the position.</p> <ol style="list-style-type: none"> <li>a) holding a PhD's degree in the field of the post's disciplines or in a related field;</li> <li>b) Meeting of the national minimum standards for the position of associate professor, standards approved in accordance with Art. 156 para, (l) letter a) of the Law on Higher Education no. 199 / 2023 as amended;</li> <li>c) Meeting of the university's minimum standards for filling teaching positions, specific to the teaching position of associate</li> </ol>

	<p>professor, set out in its own methodology, in Annex 1, without imposing seniority conditions, according to the law.</p> <p>Competences of the candidate are assessed by the competition committee based on the competition file and through: delivering a public lecture and a didactic/scientific lecture (if applicable). The higher education institution announces on its website the day, time, and location of the competition tests.</p> <p>The competition for the position of associate professor consists of:</p> <ul style="list-style-type: none"> <li>- analysis of the competition file;</li> <li>- giving a public lecture of at least 45 minutes in which the candidate presents his/her most significant previous professional achievements and the development plan for his/her future academic career. This test also necessarily includes a question session from the commission and the audience; (For candidates who do not come from higher education, a didactic lecture is also given in front of the students, in the presence of the competition committee. Its topic is announced to the candidates 48 hours before the test by e-mail and on the U.A.V. website.)</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) fulfilment of the minimum criteria imposed by CNATDCU and U.A.V.</li> <li>b) 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 candidate's teaching skills, for positions that provide for teaching activities;</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 and development projects;</li> <li>h) the candidate's professional experience in institutions other than the institution that put the position up for competition.</li> </ul>
List of documents	<ul style="list-style-type: none"> <li>a) cover page of the file according to the model in Annex 12,</li> <li>b) file description (list of documents in the competition file, no. of document sheets and the page where the document is found) according to the model in Annex 13,</li> <li>c) application for registration for the competition, signed by the candidate, which includes a declaration on his own responsibility</li> </ul>

	<p>regarding the veracity of the information presented in the file, registered at the U.A.V. Registry (Annex 2),</p> <p>d) proposal for the development of the candidate's academic career both from a didactic point of view and from a scientific research point of view. The proposal is drafted by the candidate, should not exceed 10 pages, and is one of the main criteria for differentiating candidates. The document is signed on each page in the bottom right corner with a blue pen or ink.</p> <p>e) curriculum vitae in printed and electronic format, drawn up according to Art. 15. The document is signed on each page in the bottom right corner with a blue pen or ink.</p> <p>f) list of works of the candidate, in printed and electronic format, drawn up according to Art. 16. The document is signed on each page in the bottom right corner with a blue pen or ink.</p> <p>g) verification sheet of the fulfilment of the university standards of presentation to the competition, the standard format of which is provided by the own methodology in Annex 4. This will be accompanied by proof of fulfilment of the criteria, in electronic format.</p> <p>h) Doctoral diploma: original and certified copy of the doctoral diploma;</p> <p>i) documents regarding the possession of the habilitation certificate in the field of disciplines in the competition position (for candidates for the position of university professor): copy of the habilitation certificate in accordance with the original or legalized; - not applicable</p> <p>j) summary, in Romanian and in English, of the doctoral thesis;</p> <p>k) declaration on the candidate's own responsibility indicating the incompatibility situations provided for by the Higher Education Law no. 1991/2023 in which he would be in case of incompatibility of the competition or the absence of such incompatibility situations (Annex 8);</p> <p>l) copy of the Official Gazette in which the position was published,</p> <p>m) copies of other diplomas attesting to the candidate's studies: baccalaureate diploma; bachelor's diploma; master's diploma (accompanied by the diploma supplement, the transcript) - copies conforming to the original;</p> <p>n) copy of the identity card;</p> <p>o) marriage certificate - copy conforming to the original;</p> <p>p) list with a maximum of 10 publications, patents or other works of the candidate, selected by him/her and considered to be the most relevant for his/her professional achievements. The 10 works, in extenso, will be submitted to the file and in electronic format after scanning them in *.pdf format.</p>
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	<p>q) birth certificate - copy conforming to the original;</p> <p>r) list of names and contact addresses of those, the 3 personalities in the field who have developed letters of recommendation and the 3 letters of recommendation, according to art. 13;</p> <p>s) criminal record certificate;</p> <p>t) behavioural integrity certificate;</p> <p>u) medical certificate, issued on a specific form adopted by joint order of the Minister of Education and the Minister of Health;</p> <p>v) medical opinion for the exercise of the teaching profession, issued according to the provisions of the joint order of the Minister of Education and the Minister of Health;</p> <p>w) CD competition file (this will contain all the documents physically submitted to the file (those provided for in letters d-q) and those provided in electronic format), The documents contained in the file will be scanned in *.pdf format.</p>
Address for submission of contest file	"Aurel Vlaicu" University of Arad, Arad, Bdul. Revoluției nr. 77, județul Arad, cod 310130
Methodologies	The methodology of „Aurel Vlaicu" University of Arad M 03 posted on its site

Decan  
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