

OPINION

by Prof. Dr. Eng. Svetlana Velkova Lilkova-Markova, UACEG, Department of Technical Mechanics, 1 Hristo Smirnenski Blvd., tel. 0899 966 268

Subject: Competition for the academic position of "Associate Professor" in the Field of Higher Education 5. Technical Sciences, Professional Field 5.7 Architecture, Construction and Geodesy, in the academic disciplines "Hydraulics and Water Supply for Fire Fighting" and "Design of Fire Fighting Systems" for the needs of the Department of "Tactics", Faculty of "Fire Safety and Population Protection", Academy of the Ministry of Internal Affairs

1. Competition information

The competition was announced by the Academy of the Ministry of Interior in the State Gazette issue 42/08.05.2026 in the academic disciplines "Fire Safety in Construction" and "Investment Process in Construction" for the needs of the Department of Tactics, Faculty of Fire Safety and Population Protection, Academy of the Ministry of Interior.

I participate in the scientific jury of the competition according to Order No. 4581z-1721/10.08.2026 of the Rector of the Academy of the Ministry of Internal Affairs.

2. Brief information about the candidate in the competition

An application for participation in the competition was submitted by Senior Assistant Professor Dr. Eng. Svilena Sevdalinova Arabadzhieva. She was admitted to participate.

Svilena Arabadzhieva graduated in 2007 as a fire and emergency safety engineer - Bachelor's degree at the Faculty of Fire and Emergency Safety of the Academy of the Ministry of Internal Affairs, and in 2011 - as a master's degree in the same specialty. In 2021, she completed a master's degree in the specialty "Security and Defense Logistics" at the Military Academy "G. S. Rakovski".

In 2024, Svilena Arabadzhieva defended her doctoral dissertation in the doctoral program "Occupational Safety and Firefighting Technology", Field of Higher Education "Technical Sciences", Professional Direction 5.7. "Architecture, Construction and Geodesy". The topic of the dissertation is Dynamics of Fire Development in Passenger Railway Wagons, and the scientific specialty is _ Research on the Fire Resistance of Connections in Steel Roof Structures.

In 2007, Eng. Svilena Arabadzhieva became an inspector for state fire control and preventive activities at the First Regional Service "Fire Safety and Protection of the Population" - Ruse. From 2010 to 2012, she was an inspector in the "State Fire Control and Preventive Activities" sector at the regional directorate in Veliko Tarnovo.

In 2012, Eng. Svilena Arabadzhieva became an assistant professor in the Department of Tactics, Faculty of Public Health and Safety, Academy of the Ministry of Interior. She is currently a senior lecturer in the same department.

Eng. Arabadjieva has successfully participated in various qualification courses.

3. Fulfillment of the requirements for holding the academic position

Chief Asst. Prof. Dr. Eng. Svilena Arabadzhieva has presented a Report, in which, based on the documents for participation in the competition, the points for all indicators related to the

minimum national requirements under Art. 2b, para. 2 and 3, respectively the requirements under Art. 2b, para. 5 of the ZRASRB are presented.

Under indicator A, Eng. Arabadzhieva has a defended dissertation, and this is assessed for 50 points. A monograph has been presented in connection with indicator B, i.e. the points are 100. Under indicator G, with a minimum of 200 points, the materials presented by Senior Assistant Professor Simeonova give 303.35 points. Under indicator D, with a minimum of 50 points, Dr. Arabadzhieva has recorded 99.00 points, and under indicator E _ 10 points.

With a minimum of 400 points for the academic position of "associate professor", the submission by Eng. Svilena Arabadzhieva gives 562.25 points.

The minimum national requirements under Art. 2b, para. 2 and 3, respectively the requirements under Art. 2b, para. 5 of the ZASRRB, have been met.

4. Evaluation of teaching and learning activities

Until 2019, Eng. Svilena Arabadzhieva led exercises in the disciplines: Training Practice (Operational Duty), Hydraulics and Fire Water Supply and Rescue Activities. Since then, she has been teaching in the disciplines: Hydraulics and Water Supply for Fire Fighting and Logistics.

5. General characteristics of the presented scientific papers/publications

Dr. Eng. Svilena Arabadzhieva participates in the competition with one monograph and 25 reports from scientific conferences and publications in journals. Two publications are in publications that are referenced and indexed in world-renowned databases of scientific information, and the rest are in non-refereed journals with scientific review or in edited collective volumes. The publications in referenced journals and articles 5, 18 and 20 in non-refereed journals are in English, and the rest are in Bulgarian.

The monograph is Water Supply for Internal Fire Fighting: Internal Fire Hydrants with author Svilena Sevdalinova Arabadzhieva, ISBN 978-954-348-267-2, 130 pages, 2026, Publishing House Academy of the Ministry of Internal Affairs. It consists of an Introduction, four chapters and Conclusion.

The introduction presents the purpose of the study and the main tasks.

Chapter 1: Normative and technical evolution of building water supply installations for fire extinguishing and internal fire hydrants

Chapter 2: Technical and hydraulic compatibility when replacing internal fire hydrants

Chapter 3: Survey study of knowledge, recognition and practical readiness for the use of internal fire hydrants

This chapter is different from the others. The practical recommendations are valuable.

Chapter 4: Operational use of internal fire hydrants in the Republic of Bulgaria

The literature at the end of the monograph is presented with 67 sources, 21 of which are standards.

Eng. Svilena Arabadzhieva participated in the competition with 9 reports from scientific conferences and 18 articles in journals. Five articles are independent, fifteen with one co-author and five with two co-authors.

The publications of Senior Assistant Professor Svilena Arabadzhieva are in the following areas:

- *Fire safety in passenger trains; - Evacuation of people from buildings and facilities;*
- *Fire hydrants; - Others.*

Five citations in scientific publications, referenced and indexed in world-renowned databases, fourteen citations in monographs and collective volumes with scientific review, and two citations in non-refereed journals with scientific review are presented.

Eng. Arabadjieva was a member of the team of a research project.

6. Evaluation of scientific and applied scientific contributions

The contributions in the works of Senior Assistant Professor Dr. Eng. Svilena Arabadzhieva are scientific and applied. They are related to the enrichment of existing knowledge and the application of the presented research in practice.

7. Recommendations

I recommend that Senior Assistant Professor Dr. Eng. Svilena Arabadjieva continue publishing in publications that are refereed and indexed in world-renowned databases of scientific information.

8. Personal impressions.

I know Senior Assistant Professor Dr. Eng. Svilena Arabadjieva as a lecturer at the Faculty of Fire Safety and Civil Protection, Academy of the Ministry of Interior. I have very good impressions.

9. Conclusion

Chief Asst. Dr. Eng. Svilena Arabadzhieva has presented a Report, in which, based on the documents for participation in the competition, the points for all indicators related to the minimum national requirements under Art. 2b, para. 2 and 3, respectively the requirements under Art. 2b, para. 5 of the ZRASRB are presented. It is evident that all minimum requirements for holding the academic position of "associate professor" have been met - with a minimum number of 400 points, the score presented by Chief Asst. Svilena Arabadzhieva gives 562.25 points.

Based on the above, I strongly propose that Senior Assistant Professor Dr. Eng. Svilena Arabadzhieva be elected as an "associate professor" in the Field of Higher Education 5. Technical Sciences, Professional Field 5.7. Architecture, Construction and Geodesy, in the academic disciplines "Hydraulics and Water Supply for Fire Fighting" and "Design of Fire Fighting Systems" for the needs of the Department of "Tactics", Faculty of "Fire Safety and Population Protection", Academy of the Ministry of Interior.

04.09.2026 / Sofia

Signature:

/ Prof. Dr. Eng. Svetlana Lilkova-Markova /