

OPINION

on a competition for the academic position "Professor"
in the field of higher education 5. Technical sciences, professional direction 5.2 Electrical engineering, electronics and automation, specialty "High-voltage technology", announced in Official Gazette № 7/23.01.2024 for the needs of MU-Varna, department "Medical equipment, electronic and information technologies in health care"
with candidate: **Margreta Parashkevanova Vasileva**, PhD, associate professor, MU-Varna
Member of the scientific jury: **Assoc. PhD Eng. Iva Dimitrova Draganova-Zlateva**, TU-Sofia

Assoc. PhD Eng. Margreta Parashkevanova Vasileva graduated from the "Electroenergetics" specialty, EQD master at the Faculty of Electrical Engineering of VMEI Varna (1982 ÷ 1987). In 2005, he obtained a doctorate from the National Academy of Sciences in professional direction 5.4 Energy, scientific specialty "Technology of high voltages", topic of dissertation "Limiting overvoltages in electrical networks 20 kV ". In 2009, he received the scientific title "Associate Professor" in the scientific specialty "Technology of high voltages". In 1995, Associate Professor PhD Eng. Margreta Vasileva began her professional career at the Technical University-Varna as an assistant, senior assistant (since 1998), chief assistant (since 1998) and from 2009 to 2019 associate professor to the "Electroenergetics" department of the Faculty of Electrical Engineering at TU-Varna. In the period from 2011 to 2015, Associate Professor PhD Eng. Vasileva held the position of Deputy Dean of the Faculty of Electrical Engineering, TU-Varna, and from 2015 to 2019 she was Deputy Rector of TU - Varna. From 2019 to the present, he is the head of the department "Medical equipment, electronic and information technologies in health care" at the Medical University "Prof. PhD Paraskev Stoyanov" - Varna. The candidate's total work experience as a teacher is over 29 years.

1. General characteristics of the candidate's research and scientific-applied activity.

To participate in the competition, Assoc. Dr. Eng. Margreta Vasileva presents the following scientific works and developments:

- **10 scientific publications** equivalent to a monographic work in publications that are referenced and indexed in world-renowned databases with scientific information (Web of Science or Scopus , according to indicator B4 - (**indicator B4 – 195 points – min. 100 points**));
- **4 scientific publications** printed in publications referenced and indexed in world-famous databases with scientific information (Scopus and/or Web of Science) - according to **indicator G7** ; **19 scientific publications** in non-refereed journals with scientific review or published in edited collective works - according to **indicator G8** - (**indicator G - 238.35 items - min. 200 items**);
- **17 citations** in scientific publications in referenced and indexed in world famous databases with scientific information (Scopus , Web of Science) - according to indicator D12 (**indicator D - 170 points - min. 100 points**);
- **2 textbooks**, one co-authored and **2 manuals** for laboratory exercises and tests, also co-authored, Manual of a national scientific or educational project, Manual of a successfully defended doctoral student (**indicator E - 203.34 points - min. 150 points**)
- The educational activity of the candidate (**indicator J - 141.50 points - min. 100 points**).

The works submitted are directly related to the current competition for employment at JSC "Professor" and are in the professional direction 5.2. Electrical engineering, electronics and automation in the scientific specialty "High-voltage engineering". The evaluation of the submitted references for the contributions to the candidate's publications and participation in scientific projects proves that Prof. PhD. Eng. Margreta Vasileva is a very good specialist. The displayed scientific

indicators show that the minimum national requirements for holding the title of "Professor" have been met, as well as those of the Regulations for the Development of the Academic Staff of the Medical University - Varna as they comply with the additional condition of the competition announced in Order No. R-109-95/21.03.2024 of the Rector of the MU-Varna.

2. Assessment of the candidate's pedagogical training and activity.

The candidate in the competition, Assoc. PhD Eng. Margreta Vasileva, is an established teacher with more than 29 years of teaching experience. She is a recognized and well-known specialist and expert. For the last four years, the candidate has been a leading teacher in the following disciplines: "*High-voltage technology in medicine*", "*Electrotechnical materials*" and "*Sanitary technology*" with a total schedule of **566 teaching hours**. She participated in the development of the curricula and programs for the majors "*Biomedical Engineering and Technologies*", educational qualification degree (EQD) "*Bachelor*" and "*Electronic and Information Technologies in Health Care*", EQD "*Master*" at MU - Varna.

Assoc. PhD Eng. Margreta Vasileva is the supervisor of 5 doctoral students, 3 of whom have successfully defended their thesis. She participated in 4 scientific juries on procedures for obtaining the title of doctor, in 4 scientific juries on procedures for filling the academic position of "principal assistant", in 6 - for filling the academic position of "associate professor" and in 1 - for filling for the academic position "professor".

He is the author of a textbook on "*Electrotechnical materials*", ISBN 978-619-221-337-4, MU - Varna, 2021 and co-author of a textbook on "*Materials and components of computer technology*", ISBN 978-619-221-325-1, MU - Varna, 2021., as well as co-author of two manuals for laboratory exercises on "*Electrotechnical materials*" and "*Sample tests on electrotechnical materials*". Assoc. Prof. PhD Eng. Vasileva is the supervisor of 28 successfully defended diploma graduates, trained at the "Bachelor" and "Master" EQD.

This gives me the reason to designate Assoc. PhD. Eng. Margreta Vasileva as a well-established teacher with high professional and engineering-technical qualities.

3. Basic scientific and scientific-applied contributions.

The candidate's contributions from the presented publications are of ***a scientific, scientific-applied and applied nature***. The candidate's scientific contributions are divided into four main thematic areas as follows:

- *Model studies of occurrence and organization of overvoltages in electrical systems* (B4-03, B4-04, B4-06, B4-07, B4-08, B4-09, B4-10, D7-01, D7-02, D7-03, D8-01, D8-03, D8-12, D8-14, D8-17, D8-19.);
- *Study of wave processes in grounding installations of electric power facilities* (B4-05, G8-08, G8-11, G8-13, G8-15, G8-16, G8-18);
- *Electrical safety in power systems* (B4-01, Г8-02, Г8-04, Г8-05)
- *Model studies of processes in electrical equipment* (B4-02, Г7-04, Г8-06, Г8-07, Г8-09, Г8-10)

I accept the claims in full. I also accept the distribution of the contributions in the main areas of scientific research, referred to the scientific specialty of the competition, and indicated in the document "Reference on the original scientific contributions of Assoc. PhD Eng. Margreta Parashkevanova Vasileva" for participation in the contest.

4. Significance of contributions to science and practice.

I believe that the submitted materials for the competition exceed the minimum national requirements for occupying the academic position of "professor" and are at a high scientific-technical and professional level. The significance of the contributions of the candidate in the competition - Assoc. PhD. Eng. Margreta Vasileva, for education, scientific research and innovation is indisputable. The candidate has published a significant number of scientific works with scientific and scientific-applied contributions to science, innovation and education. Participates in prestigious international and national scientific forums with international participation and the scientific publications referenced and indexed in the world-famous databases with scientific information - Scopus and Web of Science.

She participated in a large number of scientific research and scientific applied projects and implementation contracts. This is a convincing proof of recognition of her scientific achievements by a large professional community in the country.

5. Critical notes and recommendations.

I have no critical remarks about the candidate. The documents for the competition are well-formed and arranged, and are accompanied by the necessary evidentiary material. It is obvious that the candidate has covered several important scientific topics in the field of Electricity.

CONCLUSION

The scientific works presented in the competition contain significant results, for which I give *a positive assessment*. Sufficient scientific, scientific-applied and applied contributions have been received. The minimum requirements have been met and based on this I find it reasonable to propose *Assoc. PhD. Eng. Margreta Parashkevanova Vasileva to take the academic position "PROFESSOR"* in professional direction 5.2 Electrical engineering, electronics and automation, specialty "High voltage technology", at the department "Medical equipment, electronic and information technologies in health care", Faculty of "Public Health" at Medical University-Varna.

Date:
17.05.2024

JURY MEMBER:

Assoc. PhD. Eng. Iva Draganova-Zlateva

Заличено на основание чл. 5,
§1, б. „В“ от Регламент (ЕС)
2016/679