Бургаски държавен университет
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Рег.№ 5236 | 11.11 2026 г.

OPINION

for a competition to fill the academic position of „Associate Professor" in the field of higher education: 5. „Technical Sciences", professional direction: 5.2. „Electrical Engineering, Electronics and Automation", scientific specialty „Electric Power Supply and Electrical Equipment" (Non-Conventional and Renewable Energy Sources), published in State Gazette, issue 65/17.07.2026 with candidate Chief Assistant Professor Vasil Borisov Ivanov, PhD Member of a scientific jury, in accordance with Order No. RD-383/17.09.2026 of the Rector of Burgas State University „Prof. Asen Zlatarov, PhD", Burgas: Assoc. Prof. Mehmed Kadir Hasan, PhD

I.General characteristics of the candidate's research and applied research activities

The data presented by the candidate regarding compliance with the minimum national and institutional requirements serve as the basis for this assessment and are as follows:

Indicator A – 50 points obtained (minimum required – 50 points);
Indicator Group B – 100 points obtained (minimum required – 100 points);
Indicator Group Г – 280 points obtained (minimum required – 220 points);
Indicator Group Д – 90 points obtained (minimum required – 60 points);
Indicator Group E – 110 points obtained (there is no minimum number of points required);
Total points for Indicator Groups A+B+Г+Д+E – 630 points obtained.

For participation in the competition, the candidate, Chief Assistant Professor Vasil Borisov Ivanov, PhD, has submitted the following scientific publications on the announced topic 'Electric Power Supply and Electrical Equipment', which, classified by type, are as follows:

Indicator group A: (50 points) diploma for the award of the educational scientific degree "Doctor". The candidate satisfies the requirement of this indicator.

Indicator group B: (100 points) a monograph is presented that meets the established requirements. The monograph, titled "Investigation of Solar Voltage Inverters through Modeling and Practical Implementation" (published by "LIBRA

SCORP," 2025; ISBN 978-619-273-123-6; 118 (one hundred and eighteen) pages, is directly relevant to the announced scope of the competition.

Indicator group G: (280 points)- scientific publications in journals that are peer-reviewed and indexed in internationally recognized scientific databases – 3 (three) items;

- scientific publications in non-indexed, peer-reviewed journals or in edited collective volumes – 11 (eleven) items.

Indicator group D: (90 points) There are 9 (nine) documented citations of the candidate's publications in works featured in journals that are refereed and indexed in internationally recognized scientific databases. These citations attest to the significance of the scientific works in question for both research and practice.

Indicator group E: The candidate participated in 1 (one) project in 2016 (NIH 367/16, "Investigation of the Efficiency of a Voltage Inverter for Photovoltaic Systems via Modeling in the MATLAB/SIMULINK Software Environment" – a two-year project, led by Assoc. Prof. N. Simeonova, PhD) and served and is the leader of 2 (two) other projects: in 2018 (NIH 419/18 "Design, Implementation, and Investigation of an Autonomous Intelligent Low-Power Supply System" – two-year duration) and in 2026 (NIH 353 "Investigation of the Operating Energy Modes of Autonomous Power Supply Systems via Electronic Converters" – two-year duration).

In light of the above, it is determined that the points awarded across the individual criteria are fully sufficient to meet the relevant requirements.

II. Assessment of the candidate's pedagogical preparation and teaching activities

Eng. Vasil Borisov Ivanov, PhD completed his higher education, obtaining a Master's degree in 1998 at the Technical University of Varna, specializing in 'Radio and Television Engineering'. He obtained the educational and scientific degree of 'PhD' in 2017, following the defense of a dissertation titled "Investigation of the Impact of Photovoltaic Systems on Electrical Networks" (Diploma No./Date: RU-NS-2017-13/ 23.06.2017). From September 2017 to the present moment, after successfully passing a competition, he holds the academic position of 'Chief Assistant' at the primary unit: Electrical Engineering, Electronics and Mechanical Science, Faculty of Technical Sciences, Burgas State University 'Prof. Asen Zlatarov, PhD', professional direction 5.2. Electrical Engineering, Electronics and Automation. From August 2013 to September 2017, he held the position of 'Assistant' at the same workplace. During the period 2008–2010, he worked as an electronics teacher at the Vocational High School of Mechanical and Electrical Engineering and Electronics (PGMEE) in the city of Burgas. His teaching experience spans approximately 18 (eighteen) years. The provided reference of teaching hours indicates that the relevant subjects are: 'Electrical Measurements',

'EMPU', 'Electrical Engineering and Electronics', 'Electrical Engineering and Electrical Measurements', and 'Applied Electrical Engineering and Electronics' within the 'Bachelor' degree program (full-time and part-time); 'Renewable Energy Sources' and 'Practical Training – Part I' within the 'Professional Bachelor' degree program (full-time and part-time); and 'Electrical Engineering and Electrical Measurements', 'Non-conventional and Renewable Energy Sources', 'Diagnostics and Control of Electromechanical Devices', and 'Measuring and Control Instruments' within the 'Master' degree program (full-time and part-time). The total classroom teaching load submitted for the competition amounts to 865 (eight hundred and sixty-five) hours. Separate records are also provided detailing the teaching activities conducted by the candidate at the 'Bachelor', 'Professional Bachelor', and 'Master' degree levels over the preceding three academic years.

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III. Contributions and their significance for science and practice

Regarding the monograph, I accept the 5 scientific-applied contributions formulated therein. I consider that the submitted publications contain the contributions claimed by the candidate. In my opinion, the claimed contributions are the candidate's own work. His work to date reveals a certain preference for theoretical research and the exploration of suitable approaches and methods for problem-solving. At the same time, there is also a significant component of practical applications.

The assessments conducted provide grounds to present Eng. Vasil Borisov Ivanov, PhD as a highly qualified and respected researcher in the specific field of electric power supply and electrical equipment. Naturally, some of the existing publications are co-authored with colleagues, which also demonstrates an ability to work in a team.

IV. Significance of contributions for science and practice

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V. Critical notes and recommendations

I have no significant critical remarks regarding the materials submitted by the candidate for the competition. There are minor technical inaccuracies in the submitted publications; however, these do not alter the excellent impression created by the results documented by the author. Overall, the presentation of the documentation is concise and substantive, adhering to the standards of contemporary Bulgarian and English. The only thing missing is information regarding the candidate's membership in scientific and professional organizations.

VI. Personal impressions of the candidate and other information not mentioned in the preceding points

I know Chief Assist. Dr. Eng. Vasil Ivanov as a member of the Department of Electronics, Electrical Engineering and Mechanical Science and have a veri good impression of him. I believe that he has the necessary competence in the scientific field of the competition and the potential for realization as an erudite lecturer.

VII. Conclusion

Based on the familiarization with the presented scientific works, their significance, the contributions contained in them, as well as taking into account the presented educational activity, I believe that the scientific and pedagogical activity of the candidate fully comply with the Law on the Implementation of the Law on Scientific Studies and the Rules on the Terms and Conditions for Acquiring Scientific Degrees and Occupying Academic Positions at the Burgas State University "Prof. Dr. Asen Zlatarov".

Taking into account the above, I propose Dr. Eng. Eng. Vasil Borisov Ivanov to be elected to the academic position of "Associate Professor" in the field of higher

education 5. Technical Sciences, professional field 5.2. Electrical Engineering, Electronics and Automation, scientific specialty "Electrical Supply and Electrical Equipment" (Non-Traditional and Renewable Energy Sources).

November 7, 2026

Member of a scientific jury:
Assoc. Prof. Mehmed Hasan, PhD