



## STATEMENT

by Assoc. Prof. Eng. Ivaylo Raychev Belovski, PhD,  
"Prof. Dr. Asen Zlatarov" University

of the materials submitted for participation in the competition  
to occupy the academic position of "associate professor"  
in the field of higher education - 5. Technical sciences,  
by professional direction - 5.2 "Electrical engineering, electronics and automation",  
scientific specialty - "Electrical supply and electrical equipment"

In the competition for associate professor, announced in the State Newspaper, no. 97 of 21.11.2023 and on the website of the "Prof. Dr. Asen Zlatarov" University for the needs of the Department of "Electronics, Electrical Engineering and Mechanical Science" at the Faculty of Technical Sciences, as a candidate participated Mladen Antonov Proykov, Ph.D., assistant professor - "Prof. Dr. Asen Zlatarov" University.

### 1. Overview of content and results in the presented papers

The candidate, Dr. Eng. M. Proykov, has submitted numerous materials and supporting evidence for participation in the competition for associate professor: application to the Rector, curriculum vitae; copy of diploma for the educational and scientific degree "doctor"; list and copy of scientific works; author reference for citations; author reference for scientific contributions; certificate of educational and pedagogical activity, certificate of fulfillment of the minimum requirements specified in the Regulations for the conditions and procedures for acquiring scientific degrees and occupying academic positions (RPASDOAP) at the "Prof. Dr. Asen Zlatarov" University, list of graduates, etc.

To participate in the competition, the candidate submitted 29 scientific publications, of which 8 in publications that are referenced and indexed in world-renowned databases with scientific information, 4 textbooks and teaching aids, participation in 6 scientific research projects and 21 citations, of which 15 in scientific publications, referenced and indexed in world-renowned databases of scientific information. *H* – index of Dr. Eng. Proykov in SCOPUS is currently 1.

As can be seen from the evidence presented, the candidate fully meets the minimum national requirements for the position of "associate professor", and in some of the characteristics exceeds them. Therefore, the participation of Dr. Eng. M. Proykov in the competition is completely legitimate.

### 2. General characteristics of the applicant's activity

The candidate works on an employment contract at the "Prof. Dr. Asen Zlatarov" University from the city of October, 2014, and during the past period he successively held the academic positions: assistant and chief assistant, and actively participated in leading lectures, laboratory and seminar exercises. Since 2000, Dr. Eng. M. Proykov has also worked as an electrical engineer-designer with full design legal capacity and as such has participated in 9 engineering-investment projects with European and state funding.

The disciplines in which Dr. Eng. M. Proykov is a leading teacher are:

- In "Professional bachelor" degree – "El. Propulsion", "Lighting technology", "Theoretical electrical engineering" and "Power supply";
- In "Bachelor's" degree - "Theoretical Electrical Engineering I and II Part" and "Electrical Engineering and Electrical Measurements";
- In "Master" degree - "Technology of high voltages", "Relay protection", etc.

Auditor employment for the last three academic years varies between 601 hours and 653 hours. He participated in the creation of 17 study programs - 7 for "professional bachelor", 3 for "bachelor" and 7 for "master" in the specialties "Electrical Engineering", "Automotive Electronics" ("professional bachelor"); "Electronics", "Medical Electronics", "Software Engineering", "Computer Systems and Technologies" ("Bachelor"); "Electrical Engineering" - 4 semesters ("Master's"). He is the author of two textbooks and two study aids in the field of the subject of the current competition.

Ch. assistant professor M. Proykov has completed two educational courses: on development, implementation and management of digital educational content and a course in English with an emphasis on its specific use in professional direction 5.2 "Electrical engineering, electronics and automation". He is a member of the editorial board of the Yearbook of the "Prof. Dr. Asen Zlatarov" University. Actively participates in the creation of the material and technical base of the EEM department, prepares and guides 6 students in their participation in the annual student scientific session organized by the Faculty of Technical Sciences and the Faculty of Natural Sciences. He is the supervisor of 18 graduates.

The candidate defended his doctoral degree in 2018 at the Technical University of Varna, majoring in "Electrical supply and electrical equipment".

The scientific publications with which the candidate participates in the competition are mainly in the field of energy efficiency of electrical networks, the quality of electrical energy, RES and the reliability of electrical supply systems. The presented total of 29 publications - 9 independent and 20 in co-authorship exceed the minimum national requirements under group "G" indicators, as well as the requirements of RPASDOAP at "Prof. Dr. Asen Zlatarov" University.

A total of 21 citations are noted in the citation report in which the applicant's publication is cited, which is proof of the wide awareness of the scientific community about the works of Dr. Eng. M. Proykov, presented at national and international scientific conferences and published in specialized scientific journals.

The candidate, Dr. Eng. M. Proykov, has so far participated in 6 research projects, one of which (at the Research Institute of the "Prof. Dr. Asen Zlatarov" University) he is the head of. One of the projects is national - at the National Research Institute.

In the submitted documents of the applicant, there is no data on entrepreneurial activity.

### **3. Contributions (scientific, scientific-applied, applied). Significance of contributions to science and practice**

I accept the contributions in the applicant's author reference, and I summarize the scientific-applied, applied and teaching-methodical contributions by groups:

1. Research, analysis and improvement of the energy efficiency of electrical networks ;
2. Research, analysis and evaluation of indicators of the quality of electric energy and electromagnetic compatibility in electric networks;
3. Study of models of photovoltaic systems and study of their influence on electricity supply systems;
4. Investigation of the reliability of power supply systems;
5. Study of the operation of the devices for management and protection of electrical networks and energy equipment .

### **4. Assessment of the candidate's personal contribution**

The scientometric data for the candidate exceed the minimum national requirements, as well as most of the indicators approved in RPASDOAP at the " Prof. Dr. Asen Zlatarov" University for the academic position of " docent " and are as follows : 50 points for group of indicators "A" ; 100 points for indicator group "B"; 452.7 points for indicator group "C"; 164 points for indicator group "D" and 100 points for indicator group "E".

The candidate's personal contribution is significant for theory and practice and is expressed in the numerous studies conducted to optimize the energy efficiency of electrical networks, their management, reliability and functionality.

The personal contribution of Dr. Eng. M. Proykov in the educational activity is also significant and essential.

With the exception of group "E" indicators, all other requirements and indicators have been fulfilled, taking into account RPASDOAP at "Prof. Dr. Asen Zlatarov" University.

#### **5. Critical notes and recommendations**

I have no substantive critical remarks, but I would recommend Dr. Eng. M. Proykov to increase his publication activity in renowned foreign scientific journals with an impact factor and/or impact rank and to continue his participation in scientific research teams working on national and international projects.

#### **6. Personal impressions**

I know Ch. Assistant Professor Mladen Proykov, PhD, as a member of the "Electronics, Electrical Engineering and Mechanical Science" department, and I have very good impressions of him. I believe that he has the necessary competence in the scientific direction of the competition and the potential to develop and realize himself as an erudite teacher at the University.

#### **7. Conclusion:**

**Bearing in mind the above, I propose Ch. Assistant Professor Mladen Antonov Proykov, Ph.D to be elected as an "associate professor" in the field of higher education - 5. Technical sciences, professional direction - 5.2 "Electrical engineering, electronics and automation", specialty - " Power supply and electrical equipment" .**

04/08/2024

Jury member:

/ Assoc. Dr. Ivaylo Belovski/