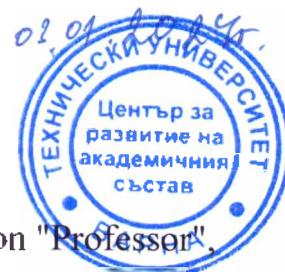


## OPINION



by competition for the occupation of the academic position "Professor", scientific field 5. Technical sciences, professional direction 5.1 Mechanical engineering, scientific specialty in the discipline "Programming of machines and systems with CAM" announced in the State Gazette, No. 67/04.08.2023 candidate: associate professor, PhD. Eng. Stoyan Dimitrov Slavov, associate professor at TMMM.

Member of the scientific jury Prof. PhD. Eng. Pancho Tomov

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

Associate Professor PhD. Eng. Stoyan Slavov submitted a total of 24 publications for participation in the competition (for the fulfillment of the minimum national requirements under Art. 26 para 2 and 3, respectively, the requirements under Art. 26 para 5 of the RSARB, defined in the PPZRASRB) as follows; Monograph (B 3.1) one issue with the title "Formation of regular reliefs using CNC machines". The monograph meets the requirements of such a work with a theoretical-practical orientation. For participation in the competition for occupying an academic position, "professor" has also submitted a list of titles of 23 items. scientific works, which are distributed as follows; Scientific publications in refereed and indexed world databases (Scopus and/or WoS) - databases - 11 pcs. (D 7.1-D 7.11) Scientific publications in non-refereed peer-reviewed or edited journals collective volumes – 12 items (D 8.1. – D 8.12)

Thematically, the works by groups are systematized mainly in the field of programming machines and systems with CAM. From the reviewed documents, submitted for participation in the competition for the academic position "Professor", it is clear that Assoc. PhD. Eng. Stoyan Slavov works in several directions. He has participated in a total of 14 project contracts under: TEMPUS, operational program "Human Resources Development", co-financed by the European Social Fund of the European Union, Scientific Research Fund at the Ministry of Education and Science and internal competitions at TU-Varna, financed by the state budget for science of R. Bulgaria. He was the head of 8 of the projects. The minimum required points by groups of indicators for occupying the academic position "Professor", area 5.

Technical sciences, prof. direction 5.1. mechanical engineering, as seen in table 1, have been fulfilled.

Table 1

Group of indicators	Contents	minimal requirements	Total number candidate
A	Indicator 1	50	50
B	Indicator 2	-	-
V	Indicators 3 and 4	100	100
G	Sum of indicators from 5 to 11	200	289.3
D	Sum of indicators from 12 to 15	100	514
E	Sum of indicators from 16 to 28	150	394
J	Indicator 29	120	768.2
	Total points:	720	2115.50

The list of citations submitted for participation in the competition meets the requirements and includes: Citations in scientific publications referenced and indexed in world-renowned databases with scientific information and citations in non-refereed publications with scientific review.

## **2. Evaluation of the pedagogical preparation and activity of the candidate**

The horary of the lectures held at TU-Varna for the last three years is 768.2 hours actually spent with a correction factor and reduction of which; in the first academic year 254.4 hours, in the second academic year 266 hours, and in the third academic year 247.8 hours. He has sufficient teaching experience as an assistant, chief assistant and associate professor in the TMMM department. Bearing in mind the presented report on the study load, which is significantly above the norm, I assume that his pedagogical experience is rich. He has published two textbooks on programming of metal-cutting machines and three study aids on programming of metal-cutting machines.

In the proposed materials, the style and technical language used are true and scientifically accurate. There is pedagogical competence and scientific awareness combined with the used engineering terminology.

### **3. Basic scientific and scientific applied contributions**

Contributions are reduced to scientific, scientifically applied and applied, with which new aspects of already existing scientific theories have been proven. technologies, constructs, problems and tasks. I welcome all contributions so formulated

**A. Scientific contributions. In total these are five contributions as follows:** The first is contained in works - (V 3-1, G 7-2); The second in works - V 3-1, G 7-2; The third in works;

a) flat surfaces - V 3-1, G 7-2, G 7-4, G7-5, G 8-2, G 8-9;

b) cylindrical, conical external and surfaces - V 3-1, G 7-1, G 7-2, G 8-2, G 8-11;

c) uneven (spatial) surfaces - V 3-1, G 7-2, G 8-1, G 8-6. The fourth in works - V 3-1, G 7-9, G 7-11; and the fifth in works; - V 3-1, G 8)

**B. Scientific - applied contributions are six, where;** The first includes the works; 1 - V 3-1, G 7-1, G 7-2, G 7-4, G 7-5, G 8-1, G 8-2, G 8-6, G 8-9. The second works - V 3-1, G 7-2, G 7-10. The third work - B 3-1. The fourth work - B 3-1.; The fifth work - B 3-1 and the Sixth G 7-9; - V 3-1, G 8-7; – G 8-1, G 8-6.

**C. There are four applied contributions.** The first is - G 7-7, G 8-4, G 8-8. The second is - G 7-3, G 8-5. The third is - G 7-3, G 8-5. and the Fourth is - G 7 -1..

**D. Methodological contributions.** Four methodological contributions, given in the works, were also formulated; The first - G 7-11, G 8-7.; The second in works - G 8-3, G 8-10.; The third in works - G 7-7, G 8-4. and the fourth in works (B 3- 1, G 8-7 ) and (G 7-3, G 8-5),

**4. Significance of the contributions for science and practice** The contributions are significant for science and practice. The scientific, scientific-applied and applied contributions contained in the works of the candidate are essential for the development and enrichment of scientific research in the field of the scientific direction of the announced competition. I believe that the volume and quality of the scientific-teaching, scientific-research and scientific-applied activities of the candidate fully satisfy the requirements for occupying the academic position "Professor".

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

I have no substantive critical remarks to challenge the candidate's basic scientific, applied science, and applied contributions. Minor technical errors are noted.

## CONCLUSION

The presented scientific works are of the necessary scientific level and are from the same thematic direction that corresponds to the requirements of the competition in PD 5.1. "Mechanical Engineering". All the requirements of the "Regulations on the terms and conditions of holding academic positions" in TU-Varna have been met. Based on the above, I strongly recommend to the respected scientific jury to positively evaluate the scientific works of the competition and to propose Assoc. Prof. PhD. Eng. Stoyan Dimitrov Slavov to take the academic position of Professor in professional direction 5.1 Mechanical Engineering, study discipline "Programming of machines and systems with CAM"

28.12.2023

Member of the scienti

Заличена информация  
по Регламент (ЕС)  
2016/679

Sofia

/prof. I