

REVIEW

for the competition for the academic position “**Professor**” in scientific field 5: Technology and Manufacturing, specialty “Programming of machines and systems with CAM”, for the needs of the “Manufacturing Engineering and Machine Tools” Department at Technical University – Varna, published in the State Gazette № 67/04.08.2023.



Candidate: Associate Professor **Stoyan Dimitrov Slavov, PhD**

Scientific Jury member: Professor **Mitko Ivanov Nikolov, DSc**

1. General characteristics of the candidate's scientific and applied achievements

Assoc. Prof. Stoyan Slavov's research activity is directed to the following areas:

- Development of technological schemes for the formation of regular reliefs by surface plastic deformation using metal-cutting machines with digital program control;
- Investigation of surface plastic deformation process parameters and such on obtained regular reliefs

The above-mentioned areas in the candidate's scientific research and implementation work are particularly relevant today and in the future, both for the development of surface plastic deformation and for the corresponding training of personnel in such direction.

Associate Professor Stoyan Slavov has submitted a monographic work, entitled "Formation of regular reliefs using CNC machines" for participation in the competition for professorship; 2 textbooks; 3 study aids; 23 publications (eleven of which are referenced in Scopus and Web of Science database) published after holding the academic position of "associate professor".

The monographic work is designed as a separate book body and was published by Color Print Publishing House in Varna in 2023. It consists of 220 pages, with an ISBN 978-954-760-564-0 and has been peer-reviewed by two reviewers.

There is an attached reference for the candidate's research and applied activities. According to this report, Assoc. Prof. Stoyan Slavov has participated in 14 research projects, five of which on a national level. He led six of the presented projects

The candidate has 60 noticed citations, of which:

- 49 are indexed in Scopus database;
- 2 are in monographs and peer-reviewed collective volumes
- 9 are in non-referred peer-reviewed collective volumes

The analysis of the candidate's monographic work, publications, scientific research and scientific-applied developments and other materials listed above shows that the basic requirements of the Regulations for the terms and conditions for holding academic positions at Technical University of Varna are covered. All indicators are exceeded.

2. Assessment of the candidate's pedagogical activities and accomplishments

I assess the candidate's pedagogical training and his work as a teacher as meeting the level of the requirements for an academic position “professor” on the basis of the following:

1. The candidate has developed and conducts 6 basic lecture courses every year for the Bachelor's degree.
2. The candidate has co-authored two university textbooks and 3 study aids;
3. Each academic year supervises bachelor's theses as there are 53 successfully defended bachelor students under his supervision;
4. The candidate was the supervisor of 1 successfully defended doctoral student and three more, which still have not finished their education.

In my opinion, Associate Professor Stoyan Slavov has excellent pedagogical training and developing a successful pedagogical activity that is fully in accordance with the requirements of the academic position "Professor".

3. Basic scientific and applied contributions

As result of his work, the author has presented 5 scientific, 6 scientific-applied, 5 applied and 4 methodical contributions. I accept all contributions and consider them to be the applicant's personal work.

4. The importance of contributions to science and practice

The scientific, scientific-applied and applied contributions contained in the candidate's works are essential for the development and enrichment of scientific research in the field of theory and practice of surface plastic deformation. The recognition of the candidate's works by the scientific circles at home and abroad supported by the large number of citations of his works, as a significant part of his scientific activity is also implemented in the educational process.

In my judgement, in terms of volume and quality, the applicant's research and application activities fully satisfy the requirements of the Bulgarian law for the career development of the academic staff and its Implementing Regulations. The quantitative indicators, accepted in the regulations Technical University - Varna for the occupation of the academic position of "Professor" are covered by the applicant.

5. Critical notes and recommendations

I do not have any significant critical notes to the applicant's scientific and applied contributions.

CONCLUSION

In my opinion, the materials presented by the candidate for the academic position of "professor" in this competition have been prepared very well and his research and teaching results and contributions meet all the requirements of the Technical University - Varna. All the necessary documents and references are provided.

The scientific developments are made at a very good level and are dedicated to a current topic that fully corresponds to the field of the competition. In the scientific works presented by the candidate, sufficient scientific, scientific-applied and applied contributions have been realized. The candidate's achievements in his pedagogical activities are also very good.

On the basis of my careful acquaintance with the presented scientific works, their importance, the scientific, applied and methodological contributions contained in them, I find it justified to propose Assoc. Prof. Stoyan Dimitrov Slavov to take the academic position of "Professor" in professional field 5.1. "Mechanical Engineering, specialty "Programming of machines and systems with CAM" for the needs of the "Manufacturing Engineering and Machine Tools" Department at Technical University - Varna.

Ruse,
December 12, 2023

July member
Prof

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