

OPINION

by Prof. Dr. Eng. Lubomir Vankov Dimitrov, TU-Sofia
of the materials submitted for participation in the competition
for holding the academic position of "Professor"
in the field of higher education 5. Technical sciences,
professional field 5.6. Materials and materials science,
specialty "Materials science and engineering materials technology"

In the competition for professor, announced in the State Gazette 47/24.06.2022 and on the website of TU-Gabrovo for the needs of the Department of Materials science and mechanics of materials at the Faculty of Mechanical and Precision Engineering, as a candidate participates Associate Professor Angel Petrov Anchev, PhD, from the Department of Materials science and mechanics of materials at the Faculty of Mechanical and Precision Engineering, Technical University of Gabrovo.

1. Overview of the content and results in the presented works

The candidate has submitted for participation in the competition a set of documents consisting of: scientific publications equivalent to a monographic work; 12 articles in referenced and indexed world databases of scientific information (Scopus and Web of Science); 16 publications in non-refereed journals with scientific review and 3 university textbooks and one problem solver for university student. All publications and the three university textbooks are in the field of the subject of the competition - "Materials science and technology of engineering materials".

Associate Professor Angel Anchev presented a document of the fulfilment of the national minimum requirements, as well as those of the Technical University - Gabrovo, for the academic position of "Associate Professor", which I would comment as follows:

Indicator A (50 points out of 50 required) – a doctoral degree diploma by the Higher Attestation Commission dated 17.07.2006.

Indicator B (127.14 out of 100 points) – the candidate has presented 10 scientific publications equivalent to a monographic work on the topic "*Improving the operational behavior of metallic materials subjected to diamond polishing by means of controlling the characteristics of Surface Integrity*" (1.B.1 – 1.B.10). All 10 articles are in IF journals. All articles are co-authored and are in the field of the competition.

Indicator Г (270.78 out of 200 points) - associate professor Angel Anchev has attached a list of 28 publications, of which in group Г.7 (in referenced and indexed in world-famous databases with scientific information) - 12 publications and in group Г.8 (in non-refereed journals) – 16 publications. The fact that all articles in group Г.7 are in high IF or SJR journals makes a very good impression. They are all co-authored. The candidate fulfills the indicators according to indicator Г.

Indicator Д (1694 out of 100 points) – the candidate has submitted the author's reference for the citations under group Д. The large number of citations is impressive, which clearly

demonstrates the quality of the candidate's scientific output. The candidate significantly exceeds the requirements of TU-Gabrovo for the academic position "professor" according to indicator Д.

Indicator E (173.66 out of 150 points) – relevant references are attached. The candidate meets the requirements for the academic position "professor" according to indicator E.

2. General characteristics of the candidate's activity

2.1 Educational and pedagogical activity (work with students and doctoral students)

It can be seen from the attached reference that the candidate Associate Professor Angel Anchev led lectures in 6 disciplines and participated in the development of lecture materials in 3 disciplines. There is attached a list of guided diploma students, as well as for two successfully defended doctoral students.

In order to ensure the learning process and to support the assimilation of the learning material by the students, in addition to the textbooks, Assoc. Professor Angel Anchev has published a "Manual for Solving Tasks in Dynamics".

On the basis of the attached documents, I believe that the educational and pedagogical activities of the candidate are at the level corresponding to the academic position of "professor".

2.2. Scientific and applied activity

The scientific activity of the candidate is reflected in his publications, textbooks, other books and research projects in which he participated. The relatively high number of publications in databases with refereed and indexed journals and especially those with a high IF or SJR makes a good impression. The number of noticed citations of the candidate in the world's databases is huge. They justly complement his good scientific work.

This gives me reason to note that in terms of volume and quality the results of the scientific and applied work of Associate Professor Angel Anchev satisfies the requirements for holding the academic position of "Professor" and meet the requirements of the Law and the Rules for its implementation as well as the Rules for obtaining scientific degrees and holding academic positions at the Technical University - Gabrovo.

2.3. Implementation activity

In confirmation of his implementation activity, the candidate has submitted a certificate of participation in 8 research projects, of which he was the leader of 3. All projects are within the framework of the Republic of Bulgaria. I believe that the applicant's entrepreneurial activity is at a good level.

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

The candidate has declared "scientific", "scientific-applied" and "applied" contributions. All contributions are in the field of competition and in particular in surface fatigue of materials. The contributions are formulated on the basis of what has been done by the author and the team in which he works and faithfully reflect what has been achieved.

4. Assessment of the personal contribution of the candidate

The personal contribution of the candidate can be judged by the number of individual publications - 5, as well as those in which he is the first author -5. This makes about 28,6% of the submitted publications in the competition. The above gives me reason to claim that the contributions are the personal work of the candidate or with his leading role.

5. Critical remarks and recommendations

My critical remarks concern the formulation of the contributions. Generally, they are very good. However, a small part of them are formulated carelessly and hastily. Some of the proposed contributions are formulated not clear (I.A2 - what does "basic and additional parameters" mean?; II.A.3; II.A.5; II.A.16; III.A.6 and others); Others confirm well-known facts and cannot be called "scientific" (I.A1); Some match in meaning (II.A.7 and II.A.13). A large number of contributions lack a verb and this makes them unclear.

I did not find any other fundamental or essential errors and inaccuracies in s in the submitted documents under the competition.

I would like to recommend the candidate to be more independent in his work - through more independent publications and those in which he is the first author.

6. Personal impressions

I do not know the candidate personally and I have no direct personal impressions, but from the presented documents I see that he is a person with a broad worldview and has very good professional qualities as a teacher and researcher.

7. Conclusion

Having in mind the above, I propose Associate Professor Angel Petrov Anchev to be elected "Professor" in the field of higher education 5. Technical sciences, professional field 5.6. Materials and materials science, specialty "Materials science and engineering materials technology"

Date: 24.10.2022

Jury member: /signature/
 /Professor L. Dimitrov/