

STANDPOINT

For competition for taking the academic position "Associate Professor" in a professional field

5.4. "Energetics" under the specialty "Electric Power Plants and Substations", announced in State Gazette, issue 105 / 18.12.2018 for Department of Electric Power Engineering of Technical University-Varna

Candidate Nikolay Deyanov Nikolayev, Ch. Assistant Prof. PhD Eng. in „Technical University - Varna

Prepared the standpoint: Angel Belchev Tzolov, PhD, Professor, Technical University - Sofia

The candidate in the "Associate Professor" competition, Ch. Prof. Nikolay Nikolayev worked as a lecturer at the Department of Electrical Power Engineering at TU-Varna since 2012. He has Doctor degree in Electrical Networks and Systems since 2014.

1. A general characteristic of the applicant's research and development activities

The main directions of the applicant's research and scientific activities are in the following areas: stability of Electric Power System (EPS) and transition processes, examination of established regimes, pre- and post-emergency regimes of the EPS. It gives the impression the increased interest in the impact of these processes on RES. The research is directed both to classic EPS and to the features of the modern intelligent electrical distribution and transmission networks. In the subject of research, a clear direction gives the impression of targeted coordination of the various interests of Ch. Assist. Prof. Nikolay Nikolayev. The serious application of the candidate is proved by the fact that he has led a project for applied research, has participated in two national scientific projects financed by the state budget. He has also been a member of the scientific teams of nine other similar projects.

The presented list of scientific papers includes 46 titles, 23 of which are classified as works to be assessed for the competition. Namely they are assessed. Ten are represented as the equivalent of monographic work. Four publications are self-contained, from the other 19 in the 9 the candidate is the first author. All the papers are in English and are in editions or proceedings of conferences with the corresponding ISBN or ISSN. Fourteen of them are visible in the SCOPUS indexed editions.

The evaluation of the presented reports on the contributions of the applicant's publications, the participation in scientific projects, his specializations in Russia and Spain proves that Ch. Assist. Prof. Nikolay Nikolayev is a very good specialist with excellent potential for development.

The result of the examination of all documents attached (under Art. 2b of LDASRB) reference indicates an overachievement by the applicant in all indicators of minimum national requirements in the professional field 5.4.

The relevant points are: for group B 160; Group C 220; for Group D 60, and Group G they are bigger for more than 4 times.

2. Evaluation of the applicant's pedagogical training and activities

The Assessment of the presented reports for the modernization of the department's material and technical base; the teaching materials developed and the teaching activity show

that his lectures have repeatedly exceeded the minimum national requirements for taking the Associate Professor position. He participated in the renovation of the technical facilities of the Laboratories of "Modern Power Systems", "Electric Power Plants and Substations" and "Electric Networks and Systems". The candidate is the author of five teaching materials - lectures on four disciplines and a manual for laboratory exercises. He also developed learning software used in student education. He has participated in the development of curricula for 5 disciplines for Bachelor's degree in Electrical Engineering. He has held classes (lectures and exercises) on the subjects "Electric Power Plants and Electric Networks", "Stability of EPS", "Relay Protection and Automation", "Electric Part of Electric Power Plants and Substations", "Power Generation Technology" High Voltage Equipment". He was supervised 27 graduates from the Master's and Bachelor's degree programs.

I think that Ch. Assist. Prof. Nikolayev is capable, respected and highly qualified teacher.

3. Key scientific and applied science contributions

The applicant's contributions are divided into three groups: scientific, applied research and applied.

Most of the scientific and applied research contributions and, at the same time, the most significant among them are contained in the ten selected publications presented as habilitation work. For the first group of contributions, 11 publications (B.4-3, B.4-1, B.4-4, B.4-2, B.4-5, B.4-6, B.4-7, B.4-8, C.7-1, C.7-2, C.7-3). Real contributions can be categorized into groups, „developing new methods and obtaining confirmatory facts“, „formulating the hypothesis, developing new methods and obtaining confirmatory facts“. I think that the place of B.4-8 and B.4-7 is more about scientifically applied contributions. The others are categorized accordingly. They are mainly in the fields of developing new methods and obtaining confirmatory facts, as well as proving with new means new substantial aspects of already existing scientific areas, problems, theories and hypotheses. However, the statements in G.8-6 are known. Most of the contributions in this category can be defined as creating new methods and obtaining confirmatory facts. The third group of contributions - applied in (G.8-7, B.4-7, B.4-9, B.4-10, G.8-2).

I accept the claims in full. In all three groups there are also methodological contributions related to the students' education.

4. Significance of contributions to science and practice

The contributions from the applicant's scientific work are significant. He is known for his publications in Bulgaria and abroad. The areas of research in which he works are relevant and significant to the EPS. The analysis of the number of co-authors and their arrangement show the applicant's clearly expressed role in the substantial part of the contributions. There are also some that have been achieved as a result of research by a team already established as a science school.

The data for citations by six authors from foreign authors (SCOPUS) show that a sufficiently broad scientific community knows the work, research and contributions of the applicant. Part of the contributions were introduced in the teaching work of the Department of Electrical Power Engineering at TU-Varna, others were applied for solving practical tasks related to the operating modes of the generators in major electrical plants.

I have reason to claim that the requirements for this indicator are over-fulfilled.

All the minimum quantitative indicators for the occupation of Academic Position "associate professor" according to the appendix to Art. 1a, para 1 of the Regulations for

Implementation of the Law on the Development of the Academic Staff in the Republic of Bulgaria are overfilled.

5. Critical remarks and recommendations

I have no critical remarks to the candidate. The documents for the competition are very well arranged and the necessary evidence accompanies them. It may be advisable for future publications to be directed to issues with an impact factor.

In addition, although the methods used to assess the scientific metrics of the academic staff in the Republic of Bulgaria almost unambiguously determine the language of the scientific publications, it would be good to find a way to publish it in specialized magazines in Bulgarian. This will ensure popularity in the national engineering community and feedback from local professionals who would rather not accept the terms of access to articles in IEEE databases.

CONCLUSION

The presentation of the candidate in the competition for the academic position "associate professor" meets the requirements of LDASRB, RILDASRB and the Internal Regulations for the conditions and order for occupying academic positions at TU-Varna.

Having learned the content of the presented works, the scientific, applied research and applied contributions as a result, taking into account the overall scientific, research and teaching work of the applicant, I convinced, Assist. Prof. Nikolay Deyanov Nikolayev to take the academic position "Associate Professor" in the professional field 5.4 "Energetics", specialty "Electric Power Plants and Substations".

30.03.2019г.

Member of a scientific jury:

(Prof. PhD Angel Tzolov)