

POSITION

by competition for an academic position **Professor**
professional field 5.2. **Electrical engineering, electronics and automation**
scientific specialty **Electronization**
announced in SG 38 /10 May 2019

Applicant: **Anton Slavchev Georgiev**, D.Sc., Associate Professor

Member of the Scientific Jury: **Ivan Stoyanov Yatchev**, D.Sc., Professor

1. General characteristic of the applicant's scientific and applied research

The only candidate in the competition - Assoc. Prof. Anton Slavchev Georgiev, D.Sc., is with the Department of Electronic Equipment and Microelectronics at TU-Varna. His research activity is entirely focused on the field of the competition.

In the competition Assoc. Prof. Georgiev takes part with 1 monography, 54 scientific publications, 3 textbooks and 12 manuals for students. Information on citations and review activities is also provided.

The presented scientific publications are divided into two groups:

- Publications in editions that are referenced and indexed in world-renowned scientific information databases - Scopus and Web of Science. In this group, 16 publications in conferences in Bulgaria are included. All publications in this group are collective, the candidate being the first author in 4;
- Publications in editions with scientific review but not referenced in world-renowned scientific information databases. In this group, 38 publications are included, of them 2 in foreign journals, 20 in journals in Bulgaria, 7 in conferences abroad and 9 in conferences in Bulgaria. All publications in this group are collective, the candidate being the first author in 18.

Information about citations of the applicant's papers is provided, showing that the candidate has 29 citations in editions referenced in SCOPUS and 70 citations in other editions.

Information regarding participation in projects is given – project leader of 2 contracts for scientific research and 2 contracts for scientific project for aid of PhD students, all at TU-Varna. Proof for applicant's participation in two projects financed under European programmes is given. Also, the candidate has given his own information about participation in total of 28 national and international projects, the major part of them being outside of the scope of the competition.

The submitted materials show that the minimum national requirements for the academic position of "professor" have been fulfilled, some of them with considerable excess.

2. Assessment of pedagogical ability and activity of the applicant

The candidate is an approved lecturer in disciplines in the field of the competition. Assoc. Prof. Georgiev has held lectures in 17 subjects in Bachelor and Master Degree, with lecture hours in the last three years, significantly exceeding the minimum requirement of 120 hours.

The applicant was supervisor of 1 successfully finished PhD student.

Certificate for the pedagogical activity of the applicant are the 3 textbooks and 12 student manuals with which he participates in the competition.

3. Main scientific and applied scientific contributions

The main scientific and applied contributions in the presented works can be summarized as follows:

- developing new models for assessing the reliability of electronic products;
- developing a new approach for assessing the reliability of lightning protection facilities;
- exploring the capabilities of the Bayesian theory at insufficient data availability for the reliability of specific products;
- proposed measures to increase the reliability of telecommunications networks and systems;
- development of medical electronic devices and apparatus.

4. Significance of contributions to science and practice

The significance of the applicant's contributions to science and practice is indisputable.

Problems connected with the reliability of electronic systems are becoming increasingly important with the rapid development of technology.

The significant activity of the applicant in the ResearchGate platform should be noted. As of the date of preparation of the present position, the candidate has received over 188,000 readings, being the most read author several times both in Bulgaria and throughout the platform. This is a testament to the recognition of the candidate among the scientific community in Bulgaria and abroad.

The comparison of the applicant's indicators with the minimum requirements for occupying the academic position of "professor" at TU-Varna shows that by most indicators the applicant significantly exceeds the minimum requirements.

5. Remarks and recommendations

The arrangement of the competition materials could be improved.

I would recommend the candidate to publish his results in journals abroad with Impact Factor.

CONCLUSION

On the basis of the acquaintance with the presented scientific works, their significance, the scientific and applied contributions contained therein, as well as the fact that for most of the indicators the applicant significantly exceeds the minimum requirements according to the Regulations for the terms and order of occupying academic positions in TU-Varna, I find it reasonable to propose Assoc. Prof. D.Sc. Eng. Anton Slavchev Georgiev to take the academic position "Professor" in professional field 5.2. Electrical engineering, electronics and automation in scientific specialty "Electronization".

Date: 29 September 2019

Scientific Jury Member: