

POSITION

by DSc.-Eng. Chavdar Ivanov Damyanov - Professor at UFT-Plovdiv

of the materials submitted for participation in the competition for the occupation of the academic position of "**Professor**" at the Institute of Information and Communication Technologies of BAS in the field of higher education 4. Natural sciences, mathematics and informatics, professional field 4. 6. Informatics and computer science, specialty "Informatics"

In the competition for "Professor" announced in the State Gazette (State Gazette, issue 41 of 21.05.2019) and on the website of ICT-BAS for the needs of the section "Modeling and Optimization", Assoc. Prof. PhD Vladimir Monov from the same section.

1. General presentation of the received materials

By order # 181 of July 19, 2019 of the Director of ICT-BAS, I was appointed a member of the scientific jury of a competition for the occupation of the academic position of "Professor" in ICT in the professional field 4.6. Informatics and Computer Science, announced for the needs of the ICT Modeling and Optimization Section.

Only the applicant has submitted documents for participation in the announced competition: **Assoc. Prof. Dr. Vladimir Monov** from the Modeling and Optimization Section at ICT.

For the purpose of the competition, the applicant has submitted the required documents and scientific production. They fully comply with the eligibility requirements for candidates participating in the "professor" competition, in accordance with the ZRASRB, PPZRASRB the Regulations for the Development of the Academic Staff of ICT, as well as the specific requirements for the procedures for the development of the academic staff of BAS.

The set of materials submitted by Vladimir Monov in accordance with the Rules for the Development of the Academic Staff of ICT includes the following documents: Application to the Director; European CV; copy of diploma for educational and scientific degree "doctor"; a certificate of internship in the specialty; a list of scientific publications with which the applicant participates in the competition, which do not repeat the ones submitted for the acquisition of the educational and scientific degree "doctor", and for the occupation of the academic position "associate professor"; a list of inventions and other scientific results; a list of citations; abstracts of the scientific publications with which the applicant participates in the competition - in Bulgarian and English; copies of all scientific publications with which the applicant participates in the competition; reference for the fulfillment of the minimum national requirements under Art. 2b, para. 2 and 3 and the requirements of the ICT under Art. 2b, para. 5, prepared on the basis of documents submitted for the competition; reference to original scientific and applied scientific contributions; a declaration that they have not been duly proven plagiarism in scientific works.

The candidate Vladimir Monov has applied a total of 25 scientific papers, 1 monograph and a list of 12 research projects. All materials are properly shaped and arranged. The procedural requirements for the announcement and participation of the candidate in the competition have been met. They are presented correctly enough and precisely and accurately reflect the current professional and academic status of Assoc. Prof. Dr. Vladimir Monov.

The publications are in English and contain mainly research, results and contributions in two thematic areas:

- 1) Matrix theory and application of matrix analysis in the study of dynamic systems and processes;
- 2) Modeling, analysis and optimization in information and communication systems.

The applicant meets the minimum scientometric criteria for the acquisition of the academic position of "professor" in field 4. Natural sciences, mathematics and informatics, as shown in the table.

Group	Content	For Professor	About Vl. Monov
A	Indicator 1		
	1. Dissertation thesis for the award of educational and scientific degree "Doctor" (PhD)	50	50
B	Indicators 3 or 4		
	3. Habilitation work - monograph	100	264
	4. Habilitation work - scientific publications (not less than 10) in publications that have been referenced and indexed in world-renowned databases of scientific information	100	-
		50 p. for publication. in Q1; 40 p. for publication in Q2; 30 p. for publication. in Q3; 24 p. in Q4; 20t. for the post in edition with SJR without IF; 12 t.	264
G	Sum of indicators from 5 to 10	260	362
	5. A monograph that has not been presented as a major habilitation work has been published	30	-
	7. Scientific publication in journals that have been referenced and indexed in world-renowned scientific information databases	50 p. for publication. in Q1; 40 p. for publication in Q2; 30 p. for publication. in Q3; 24 p. in Q4; 20t. for the post in edition with SJR without IF; 12 t.	332
	8. Published chapter of a book or collective monograph	15	15
	10. Published patent application or utility model	15	15
D	Indicator 11		
	11. Citations in scientific publications, referenced and indexed in world-renowned databases of scientific information or in monographs and collective volumes	140	210
		6 p. for indexing in Web of Science or Scopus; 3 points for indexed in IEEE and others.	210
E	Sum of indicators from 12 to 20	150	230
	13. Management successfully defended PhD student	50	50
	14. Participation in a national scientific project	10	40
	15. Participation in an international scientific project	20	100
	16. Guide to a national scientific project	20	40
	TOTAL:	minimum 700	1116

The candidate has submitted a complete list of his publications (103 titles), with the corresponding numbering excluding scientific papers submitted for participation in the competition. All publications are in English. Ten works have been published in Bulgarian magazines and 15 have been published abroad.

2. Brief biographical information

From the presented CV we can trace the professional development of Assoc. Prof. Dr. Vladimir Monov. He received his university degree in automation engineering from the Technical University of Sofia (1982). Since 1984 he has been working at BAS. The candidate successfully defended his dissertation in 1988 on the topic: "Decentralized management of large-scale linear systems" with scientific supervisor Acad. Ivan Popchev.

Assoc. Prof. Vladimir Monov has 36 years of total work experience, of which 33 years of experience as a research assistant III-II-I degrees, senior associate 2nd grade and Associate professor. Since 2010 he is an Associate Professor at IICT-BAS and Head of the Modeling and Optimization Section. All the facts of the professional profile and development of the applicant as an expert and researcher are directly related to the professional direction of the competitive procedure.

3. General characteristics of the applicant's activities

Evaluation of the applicant's scientific and applied scientific activity

The works that the applicant participates in are a product of active and consistent research work from 2001 to 2018. Nine of the publications are in Class A publications indexed in world databases. As explained above, the candidate meets the science-metric indicators of the PPZRASRB and the Regulations for Occupation of Academic Posts in the IICT. The quantitative indicators of the criteria for the occupation of the professorship have been met.

The candidate has presented monograph work: Monov, V, N. Futekova: ERP Systems: Effectiveness of the Implementation Process, 209 pages, Institute of Knowledge Society Publishing House, (under the International editorial board with editor-in-chief K. Angelov, scientific reviewers: Prof. Dr. K. Angelov, Prof. T. Stoilov), ISBN8978-619-7128-06-2, Sofia, 2015

Contributions (scientific, applied, applied) and citations

The applicant has presented his own assessment of his contributions - 9 scientific and 9 scientific-applied contributions. I believe that the contribution claims are consistent with the results obtained by the applicant. It could have been summarized in more compact groups, since in the form presented in this way the reference has the form of extended summaries (type - self-review) of separate thematically separate publications.

From the citation report submitted, a total of 66 citations of the candidate's works are identified, of which 30 citations are in publications, referenced and indexed in Scopus and / or Web of Science. The analysis of the citations undoubtedly indicates an interest in the applicant's research results and is proof that he is well known in the professional community and in the academic environment.

The applicant has certified participation in 12 research projects, one of which is European (under FP 7), 5 international (England, Russia, Slovakia), 5 national and one in-house (IICT). I believe that participation in projects is a significant contribution to the research shown by the applicant.

Materials do not contain data on implemented developments, obtained economic effect, etc. A registered patent application has been submitted.

4. Assessment of the applicant's personal contribution

The candidate has submitted 6 individual publications. The remaining publications are collective, with 16 with one co-author and 3 with two co-authors. As there is no separation protocol in the materials, I accept the participation of each of the co-authors in carrying out the research and writing the publications as equivalent. From the publications it can be concluded that Dr. Vladimir Monov was actively involved in several scientific problems, one of which he summarized in his monograph work.

The analysis of the submitted self-assessment of the candidate's contributions and the comprehensive substantive analysis of the scientific output of Vladimir Monov give me a reason to believe that the reliability of the contributions is undoubted and definitely his personal matter.

5. Critical notes and recommendations

I do not have critical material remarks related to gross inaccuracies, incorrect conclusions or inappropriate terminology.

I would recommend to the candidate's scientific production in the competition in the future that the candidate try to thematically summarize some of his results in a separate monograph.

6. Personal impressions

I have an immediate personal impression of Assoc. Prof. Vladimir Monov from our joint participation in the Specialized scientific council in Automation and Control Systems at the Higher Attestation

Commission in the recent past. I also have direct impressions of his work as an expert on the NSF Interim Scientific Committee of the Ministry of Education and Science, as well as some of his scientific appearances and results of his research. They are all positive. He is always academic, erudite, constructive and accurate. By the way, this has also been reflected in his scientific developments, which are distinguished by their thoroughness and accuracy.

Claims for scientific contributions are justified and consistent with the results actually achieved. The candidate has published a monograph and serious scientific publications on the subject of the competition have been tested in our and international scientific forums and published in reputable publications. All of this speaks to a responsible presence in the problematic and his own scientific handwriting.

CONCLUSION

The presented materials, documents and scientific production meet the requirements of the ZRASRB, the Rules for its implementation and the Internal Rules for the terms and conditions for occupying academic positions in the Bulgarian Academy of Sciences and IICT.

The candidate has submitted a sufficient number of scientific papers published after the materials used in the acquisition of the educational and scientific degree "doctor" and for the occupation of the academic position "associate professor". The candidate's works contain original scientific and applied scientific contributions, which have received international recognition as part of them and have been published in journals and scientific publications published by international academic publishers. Vladimir Monov's scientific qualification is beyond doubt.

Based on the above positive findings and evaluations, a completely positive attitude to the scientific production presented for participation in the competition can be formulated by Assoc. Prof. Vladimir Monov. By evaluating in aggregate the applicant's research work and scientific output for a satisfactory meeting of the conditions, criteria and selection requirements for occupying the academic position of "professor", I cast my positive vote and propose the honorable members of the scientific jury to vote positively for the selection of the candidate and to recommend to the respected Scientific Council of IICT to give the academic position of "**Professor**" of **Vladimir Monov** in a professional field 4. 6. Informatics and computer science, specialty "Informatics"

Date 09/13/2019

Member of the Scientific Jury:



(Prof. DSc Chavdar Damyanov)