

REPORT

to occupy the academic position:

"Professor"	X
"Associate Professor"	
	one of the academic positions indicated shall be marked with the sign "X"

Candidates to occupy the position:

1	assoc. prof.	PhD	Stela	Ivanova	Georgieva-Ki skinova	UCTM
№	academic position	scientific degree	name	middle name	last name	workplace

Scientific area:

4	Natural Sciences, mathematics and informatics
code	name

Professional area:

4.2	Chemical Sciences
code	name

Scientific specialty:

Analytical Chemistry

The competition has been announced:

68	13.08.2024	Analytical Chemistry	Chemical Technologies
in SG issue	date	for the needs of the Department	Faculty

The report was written by:

assoc. prof.	PhD	Andriana	Riks	Surleva	UCTM
academic position	scientific degree	name	middle name	last name	workplace

1. Report for the candidate:

assoc. prof.	PhD	Stela	Ivanova	Georgieva-Kisk inova	UCTM
academic position	scientific degree	name	middle name	last name	

1.1. Meeting the minimum requirements under the Regulations:

A) The candidate meets the minimum requirements	20 points	X
B) The candidate doesn't meet the minimum requirements	0 points	
		one of the answers given is marked with the sign "X"

It must be filled in if answer B is marked. The publication activity of the candidate is analyzed. The response of the results achieved (quoted) is analyzed.
<p>The candidate's publication activity far exceeds the requirements of the Law on development of academic staff of the Republic of Bulgaria and the Regulations of UCTM. The high quality and significance of the candidate's scientific results is confirmed not only by the high rank of the scientific publications in which they are published, but also by the wide response in the international scientific community - 60 citations.</p> <p>Group of indicators B: According to indicator 4, the candidate presents 6 publications. The publications are in journals referenced and indexed in the Web of Science and Scopus databases, with a total of 115 points. 100 points are required.</p> <p>Group of indicators D: Indicator 7: 24 publications - 439 points, exceeding the minimum 200 points:</p> <p>Group of indicators E: Indicator 11: Citation in scientific publications, monographs, collective volumes and patents, referenced and indexed in world-renowned databases with scientific information (Web of Science and Scopus) - 60 pt. (46 of them on the papers submitted for this competition) - 120 points with a required score of 100 points.</p> <p>Indicators Group E: Supervision of 2 successfully defended doctoral students - 100 points, participation in projects - 100 points, supervision of an international project - 50 points, funds attracted - 40 points, published textbook - 26 points. Total 316 points, 150 points required.</p>

1.2. Relevance of scientific and / or applied research:

A) The research is relevant. Part of the research is pioneering (no results are known on the topic by other authors)	8 points	X
B) Research is relevant. Results from other authors are known for each of the topics and / or applications studied.	6 points	

C) Most of the research is relevant, but also some results are presented that have no scientific and / or applied value	4 points	
D) The smaller part of the research is relevant	2 points	
E) Research is not relevant	0 points	
		one of the answers given is marked with the sign "X"

The evaluation of the relevance of the research must be substantiated.
The relevance of the scientific research with the participation of the candidate is demonstrated by the high rank of the scientific journals (12 publications in Q1; 9 in Q2 and 9 in journals with rank Q3 and Q4), the prestige of the scientific forums in which they were presented, the response in the scientific community, and last but not least the prestige of the scientific projects with the participation or led by the candidate. The main part of the scientific reports presented in the competition were published after 2020 (only 2 publications are from 2019). For this short period, 46 citations were cited in prestigious scientific journals; 14 citations are on the candidate's previous research, which have found their current continuation in the candidate's subsequent work.

1.3. Objectives of the research:

A) Realistic and of scientific and / or applied interest	8 points	X
B) Realistic, but not of scientific and / or applied interest	4 points	
C) Unattainable (unrealistic)	0 points	
		one of the answers given is marked with the sign "X"

Objectives must be specified. The type of the set objectives must be justified
Assoc. Prof. Dr. Stela Georgieva works in two main directions, whose realistic and scientifically applied goals can be summarized as follows: <ul style="list-style-type: none"> - obtaining original data on biologically active compounds and studying their complexation properties through spectral and electrochemical approaches; - research on the potential of newly synthesized compounds as chemical sensors and developing new methods for analysis, as well as improving existing ones.

1.4. Candidate research contributions:

A) With lasting scientific and / or applied response, they form the basis for new research and applications	20 points	X
B) They are of significant scientific and / or applied interest, complete and / or summarize previous research	16 points	

C) They are of scientific and / or applied interest	12 points	
D) Lack of significant contributions	8 points	
E) Lack of contributions	0 points	
		one of the answers given is marked with the sign "X"

Contributions must be specified. The type of results achieved must be justified.
<p>The documents presented in the competition outline the following contributions from the candidate's research:</p> <ul style="list-style-type: none"> - 56 biologically active (peptide (hemorphin and hydantoin)) derivatives have been characterized using a wide range of analytical techniques, and redox, protolytic, complexing and other chemical and physicochemical properties have been studied. The original data obtained are the basis for a detailed understanding of the mechanisms of biological activity of new molecules, their state and chemical activity in biological environments, structure-activity relationship, selection of optimal environments for both synthesis and preservation of their bioactivity, etc. - New data have been obtained on the complexing properties between metal ions and multifunctional organic ligands and new data have been obtained for 13 complex forms. - The applicability of two new voltammetric methods for the detection and determination of Cu(II) ions using organic ligands-aminohydantoin/azo-azomethine derivatives in real samples has been demonstrated. The methods are sensitive and selective and allow the determination of micro amounts of the analyte directly in the sample, without the need for preliminary extraction or its separation. - Speciation methods have been developed for the determination of the technologically and environmentally significant analyte arsenic. The methods are based on different approaches to sample preparation and measurement of the analytical signal. The developed methods have been implemented in real practice. <p>I believe that the indicated contributions of the candidate's research have a lasting scientific and applied impact. The accumulated data from the characterization of new biologically active compounds are of a fundamental nature and are the basis for understanding mechanisms and phenomena, the developed approach for the determination of inorganic forms of arsenic can also be applied to other analytes, in this sense they have a lasting scientific impact. The developed methods for analysis with the participation of the studied compounds as chemical sensors, as well as the innovative approach for the determination of arsenic in soils, waters and technological solutions have been implemented in laboratory practice, in this sense the contributions have a lasting applied nature.</p> <p>The results obtained in both areas in which the candidate works are the basis for the continued development of these new current areas.</p>

1.5. Participation of the candidate in the achievement of the presented results:

A) The candidate has at least an equal participation in the submitted papers	8 points	X
B) The candidate has at least an equal participation in most of the submitted papers	7 points	
C) The candidate has a secondary participation in most of the submitted papers	4 points	
D) The candidate participation is unnoticeable	0 points	
		one of the answers given is marked with the sign "X"

I am familiar with the candidate's scientific activity, I have no doubts about her equal participation in the submitted works. In 20 of the 30 scientific works submitted in the competition, Assoc. Prof. S. Georgieva-Kiskinova is the first, second or corresponding author.

1.6 Pedagogical activity:

A) The candidate has effective and sufficient pedagogical activity at the university. The textbooks issued are modern and useful (they meet the requirements of the Regulations). The work with undergraduate and doctoral students is at a high professional level.	8 points	X
B) The candidate has sufficient pedagogical activity at the university. The textbooks issued satisfy the requirements of the Regulations.	6 points	
C) The pedagogical activity and / or textbooks issued are insufficient (do not meet the requirements of the Regulations)	0 points	
		one of the answers given is marked with the sign "X"

Critical notes must be provided if one of the items B or C is marked.

1.7. Critical notes:

A) Lack of critical notes	8 points	X
---------------------------	----------	---

B) Critical notes of a technical nature	7 points	
C) Critical notes that would partially improve the results achieved in a small part of the research	5 points	
D) Critical notes that would partially improve the results achieved in most of the research	3 points	
E) Significant critical notes	0 points	
		one of the answers given is marked with the sign "X"

Critical notes must be provided if one of the answers C, D or E is marked.

1.8. Conclusion

A) The evaluation of the candidate's activity is POSITIVE	This evaluation is assigned to a total number of at least 50 points	80
B) The evaluation of the candidate's activity is NEGATIVE	This evaluation is assigned to a total number below 50 points	
		one of the answers given is marked with the sign "X"

To be filled in if requested by the member of the scientific jury
I recommend assoc. prof. Dr. Stela Georgieva for the position "assoc. professor" in the Department of Analytical chemistry, UCTM (4. Natural Sciences, mathematics and informatics, 4.2 Chemical Sciences).

14.12.2024	The report was written by:	
date		signature

