



## OPINION

by Prof. Dr. Magdalena Sabeva Mitkova, member of the scientific jury for the competition for "associate professor" in the field of higher education 4. Natural sciences, mathematics and informatics, professional field 4.2. Chemical Sciences, scientific specialty "Analytical Chemistry (Instrumental Methods of Analysis) with a sole candidate Chief Assist. Dr. Leniya-Nezaet de Brito Gonsalves – Musakova

In the competition published for "associate professor" in the field of higher education 4. Natural sciences, mathematics and informatics, professional field 4.2. Chemical Sciences, scientific specialty "Analytical Chemistry (Instrumental Methods of Analysis) in the State Gazette, issue 105 of 11.12.2020 and an order from the Rector of the Prof. Dr. Asen Zlatarov University, № RD-36 / 09.02.2021 there is only one candidate - Chief Assistant. Dr. Leniya-Nezaet de Brito Gonsalves - Musakova. The candidate has submitted all the necessary documents for participation in the competition. The requirements of the Law for the development of the academic staff in the Republic of Bulgaria, the Regulations for its implementation, as well as the Regulations for the development of the Academic staff at the Prof. Dr. Asen Zlatarov University, Burgas are observed.

1. Professional and academic development of Ch. Assistant Professor Dr. Leniya-Nezaet de Brito Gonsalves - Musakova

Chief Assistant Dr. Leniya-Nezaet de Brito Gonsalves - Musakova was born in Plovdiv. He received his higher education at Sofia University "St. St. Kliment Ohridski" - Bachelor's degree in Chemistry and Master's degree in Chemistry in "Modern Spectral and Chromatographic Techniques for Analysis". She is working on her doctoral dissertation in Chemistry and Technology of Natural and Synthetic Fuels at the Institute of Organic Chemistry within the Center for Phytochemistry,

BAS and the University of Hasselt, Belgium. She worked consecutively as a chemist and assistant at IOHCF-BAS from 2005 to 2015 and as a senior assistant at the University "Prof. Dr. Aden Zlatarov "from 2016 to the present.

2. Scientific production with which Dr. Lenia-Nezaet de Brito Gonsalves - Musakova participates in the competition

2.1. Dissertation - " Sulfur and organic Sulphur alterations in biodesulphurized low rank coals". The content of the dissertation is reflected in 4 articles in journals with impact factor, 2 congresses with ISBN registration, 2 international congresses, oral reports -3 and 5 poster reports at international conferences. The publications are not duplicated with the scientific publications on the competition.

2.2. Participation in research projects - Chief Assistant Dr. Leniya-Nezaet de Brito Gonsalves - Musakova has participated in 6 national projects funded by the Research Fund, 1 international project and 6 research projects under bilateral agreements of the Bulgarian Academy of Sciences. At the Prof. Dr. Asen Zlatarov University, Burgas she participates in 4 internal institutional projects, 1 national project and is a member of the team of national project BG05M2OP001-1.002-0019 Center for Competence" Clean Technologies for Sustainable Environment - Water, Waste, Energy for Circular Economy " .

2.3. Scientific articles - Chief Assistant Dr. Lenia-Nezaet de Brito Gonsalves - Musakova declared 18 articles in the competition, in 6 of which she was the first author (33.3%), in 5 she was the second author (28%). 16 of the articles have been published in journals with impact factor and impact rank, 1 has been published in an internationally peer-reviewed and peer-reviewed edition and 1 has been published in a collection of scientific conferences. The total scientific output of the candidate

amounts to 43 publications, of which 21 have been published in journals with impact factor and impact rank.

2.4. Participation in scientific forums - Chief Assistant Dr. Leniya-Nezaet de Brito Gonsalves - Musakova presented a list of 30 participations in scientific forums for the period 2005 - 2020.

2.5. Citation - A list of 167 citations of the articles is presented, of which 72 are declared, with which the candidate participates in the competition.

### 3. Scientific contributions of the candidate

In the research of Chief Assistant Dr. Leniya-Nezaet de Brito Gonsalves - Musakova apply chemical and instrumental methods to solve problems of fundamental and scientific nature. The forms of organic sulfur and the composition of the organic matter of fossil solid fuels and other geological objects, utilization by pyrolysis and activation of industrial and household waste have been studied. Her latest developments on the qualitative and quantitative determination of air pollutants are extremely relevant regionally, nationally and globally.

### 4. Teaching activity

Chief Assistant Dr. Leniya-Nezaet de Brito Gonsalves - Musakova has a serious workload as a teacher. She has lectured in the following disciplines: Analytical Chemistry, Analytical Chemistry - Part I, Organic Analysis, Instrumental Methods - Part I, Inorganic and Analytical Chemistry, Modern Methods of Analysis, Applied Chemistry, General Chemistry, Structure of Matter.

She has participated in the development of curricula in "Modern instrumental methods for water analysis", "Organic analysis", "Phytochemistry". She has trained 1 graduate student and 1 trainee.

## 5. Administrative activity

Chief Assistant Dr. Leniya-Nezaet de Brito Gonsalves - Musakova is a member of the General Assembly of FNS, a member of the Commission for evaluation and maintenance of the quality of education in FNS, Mall of CNIL, technical secretary of FNS, technical secretary of the Scientific Colloquium in "Natural and Technical Sciences".

## 6. CONCLUSION

In accordance with the submitted documents, I find that the candidate Ch. Assistant Dr. Leniya-Nezaet de Brito Gonsalves - Musakova meets the requirements of the Law on the Development of Academic Staff in the Republic of Bulgaria, the Regulations for its implementation, as well as the Regulations for the Development of the Academic Staff at the Prof. Dr. Asen Zlatarov University, Burgas. My acquaintance with the scientific and teaching activity of the candidate gives me grounds to propose to the scientific jury to choose the Chief Assistant Dr. Leniya-Nezaet de Brito Gonsalves - Musakova for "ASSOCIATE PROFESSOR" in the field of higher education 4. Natural sciences, mathematics and informatics, professional field 4.2. Chemical sciences, scientific specialty "Analytical chemistry (Instrumental methods of analysis). As a member of the scientific jury, I will vote firmly FOR her choice.

March 12, 2021

Member of the scientific jury:

(Prof. Dr. Magdalena Mitkova)