

POSITION

of Assoc. Prof. Dr. Julia Stefanova (Stoyanova) Georgieva – member of a scientific jury in selection procedure of academic position "Associated Professor" in professional field 4. 4. Earth Sciences, scientific specialisation Meteorology, in Meteorological Experimental Data Division of Meteorology Department of NIMH, with only applicant Assistant Professor d-r Lilia Ivanova Bocheva

This position was prepared following up the Order of the NIMH Director General № ND-04-31 from 08.10.2021 and the decision of the meeting of the scientific jury on 15.10.2021. It is in accordance with the requirements of the Law for the development of the academic staff in the Republic of Bulgaria (ZRASRB), the Regulations for its implementation (RIZRASRB) and the NIMH Rules on ZRARRB.

I. Requirements to the applicant

according to Art. 24 (1) and Art. 26 (1), (2) of ZRARRB, Art. 53(1) and Art.54(1) of RIZRASRB and Art. 53 (1) and Art. 54 (1) of the NIMH Rules on ZRASRB

The CV and documents submitted for the selection procedure show that the only applicant Liliya Ivanova Bocheva, has completed the full course of the Faculty of Physics, Sofia University "St. Kliment Ohridski " in 1992, obtaining the qualification Master Physicists with specialization "Meteorology".

She started to work as a technician-meteorologist and physicist in 'Remote sensing' division in 'Forecasting' department. Since 2001 she is a research fellow of the III degree and since 2007 is assistant professor in 'Meteorology' department. After PhD thesis entitled 'Climate variations and assessment of severe weather events in convective storms over Bulgaria (1961-2010)' and defense in 2014, she has obtained the education and research degree 'doctor'.

The applicant was at administrative positions at NIMH. Since May 2019 till October 2020 she is in charge of 'Meteorological experimental data' division, 'Meteorology' department, after that being Director of the same department. The applicant has managed successfully implemented one scientific project with external funding.

The performed verification on the presented materials concerning the competition indicates that no contraventions in the procedure or non-implementation of any conditions for permission of the candidate to this competition according ZRARRB and the NIMH rules for its applications are observed.

II. Requirements for the scientific research and R & D activities

Art. 24 (1), p.1, p. 3, p. 4, p. 5 and Art. 26 (1) of ZRASRB, Art. 53 (1), p.1, p. 3, p. 4, p. 5 and Art. 54 of RIZRASRB, Art. 53, p.1, p. 4, p. 5, p. 6, p.7 of the NIMH Rules on ZRASRB

The applicant presents information for his scientific publications, applied for the competition, according which she fulfills the required number of scores in all groups of the minimum national requirements for occupying academic position of 'docent' in professional field 4.4. Earth Sciences. A habilitation work is presented and this includes 10 scientific publications in referenced and indexed in the world-renowned databases of scientific information. Indicators in group G are covered by 4 publications referenced and indexed in the world-renowned databases of scientific information and 16 publications in non-referenced with peer-reviewing journals, and in edited collection of works. 8 of the works are published papers from scientific conferences. The applicant presents for this competition 24 citations in scientific editions in the world-renowned databases of scientific information, and thus fulfills the requirements regarding this Indicator.

Among the presented for the competition thirty publications, 28 are in the field of atmospheric circulation over Mediterranean, of severe meteorological phenomena related with convective atmospheric processes, including comparative analyses of long-term series for studying of spatial-temporal variability and their climatic trends. Two joint publications about the population of pests on coniferous forest as related to the air temperature in climatic aspect are presented. A list of 16 papers/abstracts reported in scientific conferences, 15 of which abroad is also presented.

The applicant has led one successfully implemented scientific project, financed by 'EC-ENERDGY PROJECT' EOOD, contract PO32-40/11.04.2016 for the term 01.02.2016-31.12.2017. The subject of the project is: 'Assessment of air temperature for populated locations and regions in Bulgaria where no meteorological observations are performed and development of specialised structures in meteorological database of NIMH'. Taking into account the title of the solved task might be supposed that the obtained results have contributed to the upgrade of NIMH database regarding the project implementation. In parallel, Dr. Bocheva has been participant in other 17 projects of NIMH with outside funding as well as in 4 international projects under the leadership of WMO, EUMETNET and other international organisations and initiatives.

Two of the presented papers in referenced and indexed editions are self-dependent, published in 2015 and 2019, and in other eight publications Dr. Bocheva is first author. This is an evidence for the leading role of the candidate in these scientific publications, which fulfilment is required for occupying the academic position of 'docent'. Research and R&D contributions are in accordance with implementation of the main NIMH activity, having the potential for future upgrading in the work of the candidate after she be awarded the academic title.

III. Opinions, recommendations and notes

Two of the papers, referred by the candidate as contribution No 4 (Group B-2; Group G – 4.8) do not correspond to its character. They are published correspondingly in 2009 and 2011 and couldn't be considered as being 'in continuation of the work of the thesis' defended in 2014. Additionally, in the paper group B – 2, it is not indicated which of the considered cases are with observed tornado, the phenomena pointed by the author as subject of study in relation to this contribution.

It makes impression that in reference for contributions I. Scientific contributions, prepared by the candidate, the final results from the numerous studies are not good formulated. For example it is indicated: 'A comparative analyses of the frequency and the tracks of Mediterranean cyclones over Bulgaria...is performed'; 'The cases of potentially danger precipitations in Bulgaria are investigated...'; 'spatial-temporal characteristics of thunderstorms for the whole territory of the country are analysed....'. Results from all these studies have to be generalised and the contributions to be presented in scientific categories.

In presented for the competition documents it is not clear how is expressed the scientific character in the specified in II, p.6 Research & Development activities.

In this connection more deep analytical approach in generalization of numerous results, which candidate has already obtained might be recommended.

Strength of the candidate is her participation in numerous projects with external funding related to meteorological services, as well as the significant operational activity of Dr. Bocheva. All presented citations are in referenced and indexed scientific editions that approve actuality of the obtained by the candidate results.

Conclusion

The examination of the submitted materials for the selection process does not reveal any violations in the procedure. The requirements Art. 24 (1), p.1, p. 3, p. 4, p. 5, (2) and Art. 26 (1) of ZRASRB, Art. 53 (1), p.1, p. 3, p. 4, p. 5 and Art. 54 of RIZRASRB, Art. 53, p.1, p. 4, p. 5, p. 6, p.7 and Art. 54 of the NIMH Rules on ZRASRB.

On the basis of consideration of the documents of the applicant for the selection procedure and the assessment, according to Art. 27 (3), (4) of ZRASRB on the submitted publications, I suggest that the Scientific Council of the National Institute of Meteorology and Hydrology vote for election of Assistant Professor d-r Lilia Ivanova Bocheva for "Associated Professor" in professional field 4. 4. Earth Sciences, scientific specialisation Meteorology.

Дата
Sofia

MEMBER OF THE JURY:

/Assoc. Prof. Dr Julia (Stoyanova) Georgieva/