

OPINION



By

Prof. Dr.Sci. Neyko Mateev Neykov, NIMH

member of the scientific jury in the competition for academic position "Professor" in professional direction 5.7 Architecture, Civil Engineering and Geodesy, scientific specialty "Engineering Hydrology, Hydraulics and Water Management" (Quantitative assessment of water resources and runoff regime under conditions of drought and climate variations)

This review was prepared on the basis of the Order of the Deputy Director General of NIMH № ND-04-9 of 06.02.2024 and the meeting decision of the scientific jury of 09.02.2024 in the Republic of Bulgaria (ZRASRB), the Regulations for its implementation (RAPRASRB) and the NIMH Regulations on ZRARB. The review consists of three parts and a conclusion.

I. Requirements for the applicant

under Art. 29 (1) and Art. 29b of the ZRASRB, Art. 60 of the RAPRDA and Art. 56 (1), (2) and Art. 57 (1) of the NIMH Regulations on ZRARB

Assoc. prof. dr. eng. Elena Kirilova Bojilova graduated from the Higher Institute of Architecture and Civil Engineering (now University of Architecture, Civil Engineering and Geodesy, UACEG), Sofia, in 1990 with a Master's degree in Civil Engineering. From 1995 to 1997, she was a full-time student at the International Institute for Infrastructures Hydraulics and Environmental Engineering in Delft, Netherlands, where she obtained a master's degree in hydrological engineering. From 1992 to 1995, 1996 to 2000, and 2001 to 2007, she worked as a research assistant III, II, and I in the field of surface water hydrology at the National Institute of Meteorology and Hydrology (NIMH), Bulgarian Academy of Sciences. From 1999 to 2003, she was enrolled in a doctoral program at the NIMH. She successfully defended her dissertation on "The applicability of disaggregation models to river flow conditions in Bulgaria" in 2003 and was awarded by the educational and scientific degree "doctor" in the scientific field of "Engineering Hydrology, Hydraulics and Water Management". In 2012, she was appointed Associate Professor in the Department of Hydrology. From March 3, 2025, to the present, she has been Deputy Director General of the NIMH.

Assoc. prof. dr. E. Bojilova participates in and supervises research and operational projects from the scientific research plan at NIMH related with climate change of the hydrological cycle, drought risk management and early warning systems, and assessment of river flow using the disaggregation models.

For this competition Assoc. prof. dr. E. Bojilova presents the following materials: 1) application for participation in the competition; 2) curriculum vitae; 3) list of publications and copies of their full texts; 4) reference for fulfillment of the minimum national requirements for the academic position occupation under Art.2. b, items 2, 3, 5, Art.29(1)(5) of the ZRASRB, Art.1a (1) and (2), Art.60 (1) 5, 6 (4) of the RAPRASRB and Art.2, item 4, item 56 (1) of the NIMH Regulations under the ZRASRB; 5) reference of contributions; 6.1) reference to the citations; and 6.2) NACID journals reference list with impact factor concerning the cited publications.

In my opinion, there are no procedural violations or non-compliance with some of the formal requirements.

II. Requirements for research and development activities

under Art. 29 (1), item 1, item 3, item 4, item 5, item 6, (2) and (3), Art. 29b (1) of ZRASRB, Art. 60 (1), item 3, item 4, item 5, (2) and (4) of the RAPRRSB, art. 56 (1), item 1, item 4, item 5, item 6, item 7, (2), (3) of the NIMH Regulations

Only scientific production is submitted for opinion which does not repeat submitted for obtaining the scientific degree PhD and for acquiring an academic position the associate professor.

Scientific publications. The list of scientific publications submitted by assoc. prof. dr. E. Bojilova for the competition includes 1 (one) monograph and 16 publications. The numbering of the publications is in separate order for each of the groups indicator B, D and E according to Table 2 of NIMH Regulations on ZRASRB:

Assoc. prof. dr. E. Bojilova applies with one monograph entitled: "The Yantra river - hydrological analyses and river flow modelling, 2024, 234 pages, ISBN 978-619-7739-10-7, Neofeedback Publishing House. The number of points for this publication under the indicator B.3 is 100.

The publications numbered [2,3,4,5,6,7,8,10,11,12,13,14,16] belong to the indicator group G.7 and have been published in peer-reviewed journals and the proceedings of international conference referenced and indexed in world-renowned scientific information databases. The total number of points on this indicator is 277.

The publication with number [15] belongs to indicator group G.8, published in non-refereed peer-reviewed journals or in edited collective volumes. The number of points for this indicator is 20.

Citations of scientific publications. Citations of scientific publications. The articles by assoc. prof. dr. E. Bojilova have been cited 52 times: a) 32 citations or reviews of group of indicators D.12, which are referenced and indexed in world-renowned databases or in monographs and collective volumes; b) 16 citations to indicator group D.13, in monographs and collective volumes with scientific review; c) 4 citations in non-referenced peer-reviewed journals to indicator group D.14. The number of points for indicators D.12, D.13, and D.14 is 320, 48, and 8, respectively, for a total of 366 points.

Assoc. prof. dr. E. Bojilova has: a) participated in 12 national scientific or educational and 2 international scientific projects, with 160 points under indicators E.18 and E.19; b) directed 3 national and 1 international scientific and educational projects, with 100 points under indicators E.20 and E.21. The total number of points for the indicator E is 260 points.

Group of indicators E. Assoc. prof. dr. E. Bojilova has: a) participated in 12 national scientific and 2 international scientific research projects, with a total of 160 points under indicators E.18 and E.19; b) led 1 international and 3 national scientific research projects, with a total of 100 points under indicators E.20 and E.21. A total of 260 points under indicators E.

From the presented information and the number of points on the individual indicators given in the "Summary Table", according to Art. 1a (1) and (2) of the PPZRASRB and Art. 2 (4) of the Regulations of the NIMH under the ZRASRB, it

can be seen that the candidate assoc. prof. dr. E. Bojilova clearly fulfils the minimum national requirements for the academic position of "Professor" at NIMH.

Research and applied activities. The research of assoc. prof. dr E. Bojilova is in the field of modelling and forecasting of river runoff, risk assessment of floods on the territory of Bulgaria from extreme weather events, water balance assessments and development of GIS databases.

Contributions. The contributions are clearly formulated and reflect the main results and findings within the publications of assoc. prof. dr. E. Bojilova

III. Opinions, recommendations and notes

I have not identified any essential errors, inaccuracies or omissions in the materials presented in both completion documents and candidate's publications.

Conclusion

The examination of the submitted materials for the competition did not reveal any violations in the procedure. All the requirements are met to Art. 29 (1), (2), (3), Art. 29b (2), (3) of ZRASRB, Art. 60 (1) (2) and (4) and Art. 61 (1), (3) of the PPZRASRB Art. 56 (1), items 1, 4, 5, 6, 7, (2), (3) of the NIMH Regulations on ZRASRB.

The scientific publications of Assoc. prof. dr. E. Bojilova have been referenced in the world-renowned databases of scientific information Scopus and Web of Science and have received widespread recognition. Her contribution to hydrology and its practical application give me the grounds to believe that Assoc. prof. dr. E. Bojilova is a widely recognized expert in the field of hydrology. I believe that her scientific research activity is highly appreciated and I recommend that Assoc. prof. dr. Elena Kirilova Bojilova be awarded the academic title of "Professor" by the members of the Distinguished Jury.

Date:

Sofia

Scientific Jury Member:

Prof. Dr.Sc. Neyko M. Neykov