НАЦИОНАЛЕН ЦЕНТЪР ПО ОБЩЕСТВЕНО ЗДРАВЕ И АНАЛИЗИ
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OPINION

by

Assoc. Prof. Mihaela Stoilova Ivanova, PhD ,

head of department Department " Physics" factors " at the National Center for Health Protection,

Member of the Scientific Jury according to Order No. RD - 2 / 05.01.2026

of the Director of the National Center for Public Health and Analyses

Subject: Conducting a competition for the academic position of "associate professor" at the National Center for Public Health and Analyses in the field of higher education 7. Health and Sports, professional field 7.1 Medicine, scientific specialty Hygiene, for the needs of the Physical Factors Department within the Analytical and Laboratory Activities Directorate, announced in the State Gazette, No. 95/07.11.2025 and published at http://ncpha.government.bg /_on 07.11.2025.

Candidate in the competition: **Senior Assistant Professor Tsvetelina Plamakova Shalamanova, PhD**, from the " Physical Factors" Department at the National Center of Public Health and Analyses.

The review of the presented for the competition documents showed that they fully meet the requirements of the Act on the Development of Academic Staff in the Republic of Bulgaria (ADSRB), the Regulations for its Implementation (PPSRB), and the Regulations on the Terms and Procedure for Acquiring Scientific Degrees and Holding Academic Positions at the National Center for Public Health and Analyses (NCPHA), Sofia. No procedural violations were identified. The findings regarding compliance on the documents with the requirements are presented in a report of the work of the Commission appointed by order No. RD-10 of 08.01.2026 of the NCPHA Director.

Senior Assistant professor Tsvetelina Shalamanova is graduated from the Second English High School, Sofia. Her higher education ends through 2002 at the Faculty of Physics of Sofia University "St. Kliment Ohridski" with a Master's degree in Engineering Physics, specialization "Medical Physics". In 2006, Senior Assistant Professor Shalamanova was awarded the PhD "Doctor of Medicine" in the scientific specialty "Hygiene", with the topic of the PhD thesis: "Exposure Assessment of electromagnetic fields, emitted by sources for mobile communication". In 2007, she also acquired a specialty "Medical and Sanitary Physics" at Medical University, Sofia.

In the area on the human health protection from physical factors in the living and working environment Ts. Shalamanova works from 2003 until now. During the period from 2003 to 2007 she was a regular PhD student at the National Center for Public Health and Analyses. In the field of the specialty she has 19 years labor internship. Through 2007 was appointed as chief expert in department "Physical Factors" at the National Center for Health Protection, and from 2009 to the present she has been at position of chief assistant in the "Physical factors" department to the Directorate "Analytical laboratory activities". Since 2009 she has been the head on Control body "EXACT", at the National Center for Public Health and Analyses.

Tsvetelina Shalamanova has attended 16 issues qualifying courses and training in the field of measurement and exposure assessment of physical factors in living and working environment,

information bases data, statistical packages (SPSS), the systems for quality assurance, language trainings and others. The trainings in which he participated were organized by renowed scientific organizations and institutions, such as the World Health Organization, EFOMP, Bulgarian Accreditation Body, Ministry of Health, etc. Seriously impression attract the trainings to Michigan university, as well as school on magnetic resonance imaging (MRI) – principles, provision of quality and protection provided by The European federation of the organizations of medical Physics. She has participated in 5 international webinars on the problems of the exposure assessment and human health effect of EMF.

Ts. Shalamanova is a member of 3 national and 1 European scientific association. She is fluent in 3 foreign languages – Russian, Spanish and English. She has serious computer skills and competencies: Microsoft office: Word, Excel, PowerPoint; Graphic design platform – Canva.

Through the time of her work at the NCPCA Ts. Shalamanova develops successful scientific career, as expands her own knowledge in various areas on hygiene / medical physics, including development on methods, measurement and exposure assessment of physical factors in working and living environment (electromagnetic fields from different frequency ranges, optical radiation etc.), exposure assessment of EMFs emitted by new sources and technologies in communication, medicine, etc.

The teaching activity of the candidate is on high scientifically and professionally level that corresponds to her academic position and goes beyond the national requirements. She seriously participates in training and advancement on the qualification on experts and specialists from the Ministry of Health, Regional Health Inspectorates, authorities, control bodies in the area of methods for measurement and exposure assessment of electromagnetic fields and informational bases data (13 courses for training). Ts. Shalamanova was scientific supervisor of post graduate student in the scientific specialty " Medical" sanitary Physics" at the Sofia Medical University. She is a co-author on publications related to education and professional development and realization of the specialists in the field of medical sanitary physics, as well as she has written chapters in a guide for protection from non-ionizing radiation.

Her competence in electromagnetic fields measurement is evidenced by her successfully participation in interlaboratory comparison measurements of electromagnetic fields conducted by authoritative universities and organizations abroad (proven with certificates). She is from the main authors who developed methodology for the first international interlaboratory comparison measurement of EMF in our country.

Chief Assistant Professor Ts. Shalamanova has participated in big number of scientific projects and applied scientific developments, whose results are published in various national and international editions. For her participation in the competition Ts. Shalamanova has presented 37 publications, 24 of which in foreign journals and 13 in Bulgarian issues. She is the first author of 10 of them. Twenty - two from the publications of Ts. Shalamanova, PhD are in scientific journals in refereed and indexed in world-renowned databases of scientific information, and 15 issues have been published in non-refereed journals with scientific review or published in edited collective volumes.

Chief Assistant Shalamanova participated in 4 international scientific projects, as well as next: two of the World health organization, one multinational scientific project of universities and institutions from different European countries and the USA, and one funded from The Norwegian fund for science. She has participation in 9 projects from scientific plan of the National Center for Public Health and Analyses, as in 3 of them is responsible leader, and in 1 leader. She has participated in projects within the theme to The National action plan on environment and health.

The main scientific contributions on Ts. Shalamanova are in the following areas:

- Measurement and exposure assessment of electromagnetic fields in the radio frequency range, which covers modeling of EMF, determination on hygienic safety zones (zone of impact) around communication sources and exposure assessment of the general public.
- Measurement and exposure assessment to extremely low frequency electromagnetic fields: It includes research on energy systems as transformer stations, high voltage overhead lines distribution systems. Here serious contribution is participation in scientific project for magnetic field, emitted by transformer stations in residential buildings;
- Exposure Assessment to non-ionizing radiation in the work environment with sources emitting EMF such as appliances for dielectric sealers, devices for induction heating physiotherapeutic devices, as well as optical and laser systems.
- Development of methods for measurement and exposure assessment of electromagnetic fields, including the development and implementation of methods for measuring electromagnetic fields according to ICNIRP recommendations and European IEC standards;
- Training and professional development of medical and sanitary physics specialists.

I know chief assistant Shalamanova since her diploma thesis preparation in the "Physical factors" department and then through all her scientific career. My personal impressions for her are as loyal and hardworking a person with a wide knowledge in the field of the medical physics. Her scientific interests and pursuits, as well as her precision in carrying out on scientific research gives serious basis for further development. My opinion that has the ability to work and lead a scientific team, offers ideas for scientific research. That are important scientific conditions for academic position, for which she applies.

All prominent contributions of Senior Assistant Professor Tsvetelina Shalamanova, Ph, in the scientific, applied scientific and teaching activities are in a compliance with the quantitative and qualitative criteria and that they fully comply with the minimum national and additional requirements of the Act on the Development of Academic Staff in the Republic of Bulgaria, the Regulations for its Implementation, and the Regulations on the Terms and Procedure for Acquiring Scientific Degrees and Holding Academic Positions at the National Center for Public Health and Analyses.

All this gives me reason to confidently recommend to the esteemed scientific jury to award **Senior Assistant Professor Tsvetelina Shalamanova, PhD** the academic position "Associate professor" in the field of higher education 7. "Health and Sports", professional direction "7.1. Medicine", specialty "Hygiene", for the needs of the "Physical Factors" Department, "Analytical Laboratory Activities" Directorate at the National Center for Public Health and Analyses.

02 March 2026

Assoc. Prof. Michaela Ivanova, PhD

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