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OPINION

On the materials submitted for participation in a competition for the academic position "Associate Professor" in the field of higher education 6. "Agricultural Sciences and Veterinary Medicine", professional field 6.5. "Forestry", scientific specialty "Forestry, incl. Dendrology", announced by the Institute of Forestry-BAS, in SG No. 12 of 12 February 2021.

Candidate for participation in the competition: Chief Assistant Dr. Plamen Stankov Glogov

Prepared by: Assoc. Prof. Dr. Maria Todorova Stoyanova, appointed a member of the Scientific Jury by Order № RD 15-151 / 15.04.2021 of the Director of the Institute of Forestry-BAS.

1. Brief biographical data.

Ch. Assistant Plamen Glogov graduated from the University of Forestry, specialty "Ecology" in 1997 and received the qualification "Environmental Engineer". In 2004 he obtained the qualification "Master of Public Administration" at the Institute for Postgraduate Qualification of the University of National and World Economy, and in 2013 "Master of Theater Directing" at the New Bulgarian University.

In 2018 he defended his doctoral dissertation at the Institute of Forestry - BAS on: "Study of the higher flora and analysis of the dendroflora of Lozenska Mountain" (scientific specialty "Forestry, including Dendrology"). From 1998 to 2006 he worked consecutively as an assistant, senior assistant and chief assistant at University of Forestry and conducted classes in Botany, Phytocenology and Ornamental Plants of the Bulgarian flora. Since 2006 he has been working at the Ministry of Environment and Water, where he holds positions as Chief Expert "European Union Funds for the Environment", "Implementation of the PHARE Program", Head of Project Preparation Department at the PHARE Program, Director of the Directorate "Implementation of PHARE Program", Head of the Monitoring and Control Department in the European and International Projects Directorate at the Ministry of Environment and Water, Head of the European and International Projects Department. Since 15.10.2015 he has been working in a tourism company and directing theater performances. From 06.11.2017 he entered as an assistant at the Institute of Forestry, and from 06.08.2018 until now he is a chief assistant in the section "Forestry and forest resources management", scientific field "Forestry", incl. Dendrology. His total work experience is 21 years.

2. Conformity of the submitted documents and the materials of the candidate with the minimum requirements, according to the Regulations for acquiring the scientific degrees and holding academic positions in the Institute of Forestry-BAS.

The submitted documents and materials under the competition are in accordance with the requirements of the Law on the Application of Scientific Degrees and the Regulations for its implementation, the Regulations for the conditions and procedure for acquiring scientific degrees and for holding academic positions and the Regulations for the conditions and procedures for acquiring scientific degrees and holding academic positions at the Forest Institute - BAS. According to

the self-assessment report on the minimum national requirements for the scientific and teaching activity for holding the academic position "Associate Professor" Ch. Assistant Plamen Glogov exceeds the required points for the five groups of indicators (A, B, C, D and E). The sum of the points is 843.4 with a required minimum of 500 points. In the additional requirements of BAS the candidate has presented information for participation in scientific forums, participation in projects, lectures, exercises and more. The candidate participated in the competition with 55 publications, 21 citations, 39 participations in scientific forums. For participation in the competition for the academic position "Associate Professor" participates with 47 publications, of which 24 pcs. in Web of Science and Scopus, in 27 he is the first author, in 11 the second, and in 9 he is the third and subsequent author. One article is cited in print, 21 citations, of which 7 are in international publications. He is a leader of 1 project and a participant in 4 scientific and scientific-educational projects.

3. General description of the submitted materials.

Ch. Assistant Plamen Glogov presented a complete set of materials for the competition, according to the requirements of the Law on the Application of Scientific Degrees and the Regulations for its implementation, the Regulations for the conditions and procedure for acquiring scientific degrees and for holding academic positions and the Regulations for the conditions and procedures for acquiring scientific degrees and holding academic positions at the Forest Institute - BAS. The Commission for Acceptance of Documents at IF-BAS has not found any discrepancies and reports a complete set of the applicant's materials. The summarized list of scientific production contains a total of 55 scientific articles and conference reports, of which 4 publications are related to the receipt of ESD "Doctor", another 4 issues are presented in the competition for chief assistant, and the remaining 47 publications are subject to review of this competition.

4. Main directions in the research work of the candidate and the most important scientific and scientific-applied contributions.

The main directions in the research work of the candidate are in the field of morphological and anatomical studies, chorology, floristic and dendrofloristic studies, invasive species, studies in the field of forestry and phytocenological research.

The important results of the studies are:

-The changes in the anatomical and morphological parameters of *Ligustrum vulgare* L. during the first 40 days after permanent mechanical damage have been studied (Г.8.7.);

- For the first time a case of albinism has been established in *Vaccinium vitis-idea* L. (Г.8.18.);

-New localities of 18 species have been established on the territory of Lozenska Mountain (Western Sredna Gora floristic region), 1 species on the territory of Plana (Vitosha floristic region) (Г.7.5.) and 1 species on the territory of the Danube islands Aydemir and Vetren (Danube Plain floristic region) (Г.7.13.), most of which are invasive species and species with conservation status;

- The higher flora of Lozenska mountain has been studied (Г.7.1.);

-The plant diversity in the natural habitats of *Platanus orientalis* L. in Bulgaria has been studied as a stage towards the creation of a conservation strategy for its conservation (Г.8.8);

- An analysis of the influence of flora and vegetation on the genetic diversity and the distribution of the populations of eastern plane trees in nine natural habitats of the species has been performed;
- The species composition and quantitative participation of lianas in the forest communities of the Danube islands Vetren and Chaika have been studied (Г.7.11);
- A study of the floristic composition in black pine crops with undergrowth of manna ash (Г.8.14.)
- Restoration processes in burned areas in the regions of Stara Zagora and Belogradchik two years after the fire were studied. (Г.8.1);
- Studies have been conducted related to the application of regulations on the use of ornamental plant species for landscaping of roofs and exterior walls of buildings in urban environments (D.7.8, Г.7.9);
- The dendroflora of Lozenska mountain was studied according to the following indicators: ecological features (Г.7.14) and convertability (resistance to environmental changes) of the main edificators (Г.8.9, Г.8.10), and for the first time the new complex methodological approach was applied for the study of the dendroflora, including multifactor analysis and evaluation of edificators;
- The healing (Г.8.3) and honey (Г.8.6) dendroflora of Lozenska mountain have been studied and the honey potential of the main tree species has been calculated;
- A study of the semi-shrub dendroflora of the country has been carried out, including an inventory and characteristics of its main taxonomic, ecological and phytogeographical components (Г.8.23);
- Studies have been carried out on the biological characteristics and control measures related to the spread and impact of the invasive alien glandular species (*Impatiens glandulifera* Royale). (Г.8.22) and two very important practical benefits for the control of the species have been identified: First ,. uprooting in the germination phase and the second collected mature stems to be piled in place in direct sunlight. With regard to the means for chemical control of the populations of the glandular leg, it has been found that the total herbicide is relatively more effective than the selective one (Г.8.17.). Studies of measures to control *Impatiens glandulifera* are aimed at attempts to use the species for grazing (Г.8.21) and to look for potential biological agents (pests and pathogens) for which it is a host (D.7.7., Г.8.19).
- The biological and ecological features of the potentially invasive alien species *Lupinus polyphyllus* on the territory of Lozenska mountain have been studied (Г.8.16);
- A study of ruderal communities in coastal areas, which are under permanent anthropogenic pressure. (Г.7.12);
- Phytocenotic studies have been conducted in black pine crops with undergrowth of manna ash in part of the mountainous areas around the city of Sofia - Vitosha, Plana, Lozenska mountain and Stara Planina (Г.8.15);
- Classification according to the floristic approach of the indigenous communities in the studied area is presented (Г.8.12) and a map of the potential vegetation (Г.8.13);
- The European experience in the medium-stem economy has been studied and analyzed

the opportunities for implementation of the medium-stem economy in Bulgaria (Г.7.4);

-A review study of the existing problems related to the deteriorated condition of the forests of chestnut (*Castanea sativa* Mill.) in Bulgaria. (Г.8.3.);

- An up-to-date methodology for monitoring the natural forests of the Danube Islands and the impact of invasive alien plant species on them has been developed (Г.7.10);

4. Reflection of the candidate's scientific publications in the literature.

The list of open citations (indicators group E) includes 21, after the competition for chief assistant (a total of 39) of which 8 in scientific journals, referenced and indexed in the world-famous database, 12 pcs. in monographs and collective volumes with scientific review and 1 pc. in unreferred journals with scientific review. 8 pcs. (38.1%) of the citations are in Web of Science and Scopus.

The total number of points 245 exceeds the required minimum of 100 points.

All mentioned open citations after taking the academic position of "chief assistant" are positive - a total of 21, of which 7 are in international and foreign editions (with an editor, not presented in previous competitions).

6. Participation in research projects

According to the "Self-assessment of scientometric indicators" presented in the documents, group E - management and participation in projects, the applicant indicates:

-Participation in a national scientific or educational project - 2 pcs.

-Participation in an international scientific or educational project - 2 pcs.

-Management of an international scientific or educational project - 1 pc.

With a minimum of 50 points required, the candidate achieves 100 points.

7. Teaching activity.

Laboratory and practical classes with students from UF - 42 points.

Participation in scientific forums - national - 4 pcs. and international - 14 pcs.

In the group of additional indicators Dr. Plamen Glogov points out 74 points.

8. Evaluation of the personal contribution of the candidate

The personal contribution of the candidate in the presented scientific production for participation in the competition for the scientific specialty "Associate Professor" is: in 27 pcs. is the first author in 11 issues is the second author, in 9 is the third or next, in 1 pc. is an independent author. This proves the candidate's ability to work actively in his research areas, and the other works show the ability of Dr. Glogov to work in a team.

9. Critical remarks and recommendations

I have no significant critical remarks on the mentioned works of the candidate for participation in the competition for "Associate Professor".

Given the importance of phytocenological and floristic research on Forestry, Forest plantations, Forest Management, Biodiversity Conservation and Ecosystems, I would recommend the candidate to focus his research on these areas. It would also be good to strengthen its independent publishing activity.

10. Personal impressions.

I know Ch. Assistant Plamen Glogov since his doctoral studies at the Institute of Forestry in 2016. In his scientific and applied research activities, the candidate is distinguished by good awareness, competence and collegial ethics. His knowledge in the field of phytocenology and phytocenological research is a good basis for successful work and a reasoned and definite position on current scientific issues in the fields of Forestry, Ecology, Biodiversity, Ecosystem Protection and others.

11. Conclusion.

Ch. Assistant Dr. Plamen Glogov covers the mandatory conditions and scientometric indicators for holding the academic position of "Associate Professor" at IF-BAS, which is evident from the submitted documents, materials and scientometric references. In connection with the above, I propose Ch. Assistant Plamen Glogov to be elected as "Associate Professor" in the professional field 6.5. Forestry ", scientific specialty Forestry, incl. Dendrology.

Date: 26.05.2021 r.

Sofia

Prepared by:

(Assoc. Prof. Dr. Maria Stoyanova)