

# POSTURE



**Concerning:** Competition for occupation of the academic position "**Associate Professor**" in: field of higher education 6. *Agricultural sciences and veterinary medicine*; the professional field 6.1. *Crop Production*, scientific specialty Melioration, announced in the State Gazette No. 98 of November 17, 2020 by the Agricultural University – Plovdiv, Bulgaria

**Candidate for the competition:** Chief Assistant Professor PhD Radost Petrova Petrova from the Agricultural University – Plovdiv

**Reviewer:** Prof. PhD Svetla Stoyanova Kostadinova, Agricultural University - Plovdiv, field of higher education 6. *Agricultural sciences and veterinary medicine*; professional field: 6.1 *Crop production*; scientific specialty *Agrochemistry*, appointed as a member of the scientific jury according to order № RD 16-63/27.01.2021 of the Rector of the Agricultural University - Plovdiv.

## 1. Brief introduction of the candidate.

In the announced competition (SG No. 98 of 17.11.2020), the only candidate for the academic position of "Associate Professor" is Chief Assistant Professor PhD Radost Petrova. She graduated in 2008 with a degree in "Agronomy-hydromelioration" in AU-Plovdiv, where she obtained a master's degree in Ornamental Plants and Landscape Design in 2009. After a successful competition, Radost Petrova started working as an Assistant Professor in the Department of Meliorations, Land Regulation and Agrophysics in 2009, and from 2015 until present, she holds the academic position of Chief Assistant Professor at the same department. In 2014, she obtained the educational and scientific degree "Doctor" with the topic of the dissertation: "Irrigation regime and evapotranspiration of garden beans *Phaseolus vulgaris* L. spp. *nanus*, Strike variety, for the region of Plovdiv".

## 2. General description of the scientific production.

In the competition for "Associate Professor" Chief Assistant Professor PhD Radost Petrova participates with a total production of 66 works, grouped as follows:

- *Publications related to the doctoral dissertation* - 4 issues that are not subject to review;
- *Publications outside the nomenclature specialty* - 2 issues that are not subject to review;
- *Publications in peer - reviewed and peer - reviewed scientific journals* - 17 issues
- *Publications in non-peer-reviewed peer-reviewed journals and conference proceedings* - 43 issues

**60 pieces** are subject to analysis for the preparation of the posture.



Chief Assistant Professor PhD Radost Petrova fully meets the requirements for the academic position of "Associate Professor": she forms 185 points with a requirement of 100 points from articles referenced in the databases Scopus and Web of Science; she forms 305 points with a requirement of 200 points from publications in other databases; for the cited she presents 165 points with a requirement of 50 points.

The personal participation of Chief Assistant Professor PhD Radost Petrova in these 60 publications is illustrated by the fact that in 46 of them she is the first or second author.

### **3. Teaching activity.**

Chief Assistant Professor PhD Radost Petrova has 11 years and eight months of teaching experience as a lecturer in the Department of Meliorations, Land Regulation and Agrophysics at AU - Plovdiv currently. She actively participates in the training of agronomic staff. Chief Assistant Professor PhD Radost Petrova teaches the disciplines "Irrigation and Drainage" "Technologies for Irrigation of Parks", "Irrigation Mode", "Techniques for Irrigation of Parks", etc. She also conducts exercises with students from a master's course in the discipline "Irrigation technologies in vineyards". Its study load for the period 2015 - 2020 is 2059 hours or an average of 411 hours for each school year. She works very well with young people and eight students from the Faculty of Horticulture with Viticulture have successfully defended their diploma works under her supervision.

### **4. Research activity.**

#### **Areas of publication.**

The research work of Chief Assistant Professor PhD Radost Petrova is in the field of optimizing the irrigation regime of agricultural crops. It were mainly studied the evapotranspiration and productivity in crops such as soybeans (14 publications), maize (9 publications), sunflowers (8 publications), field beans (4 publications), garden beans (17 publications + monograph), grass mixtures (4 publications) and etc., in case of optimal irrigation and in case of irrigation in the conditions of water deficit. For these crops and the specific conditions, the parameters of the dependence "Water-yield" have been established. The indicated contributions really correspond to the presented scientific production. A large part of the obtained experimental results of the candidate Radost Petrova (a total of 49 articles) was reported at scientific forums with international participation. Twelve articles were reported as presentations and 37 were presented as posters. Thus, Chief Assistant Professor PhD Radost Petrova has worked very well to promote her scientific production among the scientific community.

#### ***Citing and abstracting of the scientific research.***

According to a report presented by Chief Assistant Professor PhD Radost Petrova, the total number of citations is 20. Seven of the citations are in scientific journals, referenced and indexed in world-famous databases of scientific information (Scopus and Web of Science). In total from the indicators D13 and D15 the candidate accumulates 165



points and exceeds three times the minimum requirements for the academic position of associate professor.

#### ***Participation in research projects.***

Chief Assistant Professor PhD Radost Petrova has participated in a total of three projects. One of the projects is funded by the Agricultural Academy and is entitled "Evaluation, conservation, enrichment of genetic resources by *Sorghum vulgare* var. *technicum* and technological solutions for the production of fodder and seeds". She is the operational manager of two projects with funding from AU-Plovdiv. The projects are related to irrigation of garden beans.

#### **5. Remarks and recommendations.**

I have no significant remarks on the presented scientific production by Chief Assistant Professor PhD Radost Petrova. I believe that she fully meets the requirements of this competition in terms of themes and the quality and accuracy of the research work. I recommend to Chief Assistant Professor PhD Radost Petrova should continue to publish in journals referred to in Scopus and Web of Science, to promote scientific results among farmers, and to be actively involved in the training of doctoral students.

#### **6. Conclusion.**

Based on the analysis of the pedagogical, scientific and scientific-applied activity of the candidate, I believe that she fully meets the requirements of ZRASRB, PPZRASRB and the Regulations of the Agrarian University for its application. In the competition for the academic position of "Associate Professor" Chief Assistant Professor PhD Radost Petrova participates with a sufficient volume of scientific production published in Bulgarian and foreign specialized publications, she is the author of a monograph. She is a respected and established teacher. The scientific production presented by Chief Assistant Professor PhD Radost Petrova indicates that she is a specialist in the field of melioration.

All this gives me reason to appreciate **POSITIVELY** her overall activity.

I allow myself to suggest to the esteemed Scientific Jury also to vote positively, and the Faculty Council of the Faculty of Horticulture with Viticulture of the Agricultural University – Plovdiv, to elect **Chief Assistant Professor PhD Radost Petrova** for "Associate Professor" in the scientific specialty of **Melioration**.

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PREPARED THE POSTURE:



(Prof. Dr. Svetla Kostadinova)