



Scientific opinion

About: academic position „Associate Professor” in higher education
6. Agricultural Sciences and Veterinary Medicine; professional field
6.1. Agricultural Sciences and veterinary medicine; scientific speciality
“Melloaration”, announced in the state Gazette, 98/17.11.2020. Candi-
date chief Aaist. PHD Radost Petrova Petrova

1. Brief applicant's biographical data

Chief Assistant Dr. Radost Petrova Petrova was born in 1985. She graduated from the Agricultural University, majoring in "Agronomy-hydromelioration" in 2008. In the following 2009 she graduated with a master's degree in ornamental plants and landscape design. In the same year he started working as an assistant at the Agricultural University - Plovdiv.

Performs exercises in the disciplines: Irrigation, Irrigation and Drainage and EHMS, with students from several specialties. He manages a summer internship with first and second year students, specialty AHM. During the period from 2009 to 2015 he worked as an assistant in the Department of Land Reclamation, Land Management and Agrophysics. In 2014, as a free doctoral student, he successfully defended his doctoral dissertation on "Irrigation regime and evapotranspiration of garden beans" (*Phaseolus vilgaris* L. ssp. *Nanus*), variety "Strike", for the region of Plovdiv.

In 2015 she was reassigned as chief assistant. Educates students in various specialties, giving lectures on the subject "Irrigation and drainage" for part-time students V course, specialty Agricultural Engineering and the subject "Technology for irrigation of parks" for students specializing in LG and DG, full-time education, II course. Performs exercises in the disciplines: Irrigation and drainage, Irrigation regime, Techniques for irrigation of parks, with students from a number of specialties. Conducts exercises with students from the master's course HUNTING, discipline "Irrigation technologies in vineyards. Fluent in written and spoken English.

2. General description of scientific production.

In the competition for "Associate Professor" Ch. Assistant Professor Dr. Radost Petrova Petrova participates with a total production of 67 works, grouped as follows:

Monograph - "Irrigation of garden beans", 2020. ISSN: 978-619-90861-6-2;

Scientific publications in the nomenclature specialty - 64 issues, of which:

- Publications related to the doctoral dissertation and the academic position of "chief assistant" - 4 issues that are not subject to review;
- Publications published in scientific journals, referenced and indexed in world-famous databases with scientific information - SCOPUS, Web of Science - 17 pcs.
- Publications in peer-reviewed scientific journals and conference proceedings - 47 issues;
- Publications, outside the nomenclature specialty - 2 issues.

According to the attached report, the applicant covers the minimum required points for the groups of indicators as follows:

Indicator A: Dissertation work for awarding ONS "Doctor", defended in 2009 - 50 points;

Indicator B: Habilitation work - monograph "Irrigation of garden beans ISSN: 978-619-90861-6-2; - 100 points;

Indicator D: The number of points on this indicator is 304.59 and exceeds the required (200) points.

Indicator E: According to this indicator, 165 points are presented, supported by evidence - Citations in scientific journals, referenced and indexed in world-famous databases with scientific information or in monographs and collective volumes.

The personal participation of Ch. Assistant Professor Dr. Radost Petrova Petrova in these 62 papers is illustrated by the fact that in 23 (37.1%) is first, in 24 (38.7%) is second, and in the remaining 15 (24, 2%) is the third and subsequent author.

3. Teaching activities.

From the submitted documentation it is evident that as of February 2021 the candidate has 11 years and 8 months of teaching experience at the Agricultural University, Plovdiv. Participates in the training of students, giving lectures on the disciplines "Irrigation and drainage" and "Technology for irrigation of parks." Performs exercises in the disciplines: "Irrigation and drainage", "Irrigation regime", "Techniques for irrigation of parks", with students from Bachelor's degree and exercises with students from the master's course HUNTING, discipline "Irrigation technologies in vineyards".

During the last 5 years the total classroom employment of Ch. Assistant Professor Dr. Radost Petrova Petrova is 2059.4 hours, which is 411.88 on average per year. The workload of the applicant significantly exceeds the average annual workload. Under the guidance of Dr. Petrova, 8 diploma theses have been developed and successfully defended.

4. Research activity.

Areas of publication.

The research activity and the publications of Ch. Assistant Professor Radost Petrova discusses issues related to irrigation in a number of crops - sunflower, corn, soybeans, common and green beans, greenhouse tomatoes and others. The influence of the water deficit during different stages of the vegetation, the productivity of the crops at different moisture supply and evapotranspiration are analyzed.

The parameters of evapotranspiration and some biophysical coefficients, as well as the dependences between them in garden beans, which have practical application, have been established. In sunflower, maize and soybeans, the parameters of yield and the amount of evapotranspiration in case of water deficit were determined. The degrees of influence of the factors culture, variety, fertilization norms and irrigation regime have been established. As a result of the research activity, a number of conclusions have been made with a practical orientation in the management of water resources.

Citation and referred of scientific production.

The presented materials contain 20 citations. Of these, 7 are cited in scientific journals, referenced and indexed in world-famous databases (SCOPUS, Web of Science), 7 in non-refereed journals with scientific review (foreign publications) and 6 in unreferenced journals with scientific review (BG publications).

Participation in scientific projects.

Ch. Assistant Professor Radost Petrova participates in two university projects, in which he is an operational manager and one project, with external funding (from the SAA - Project № R 164), in which he is a participant.

5. Notes and Recommendations.

The presented list of scientific publications shows a serious burden on research in the field of irrigation. The lack of independent publications is impressive. Extensive experience and accumulated knowledge can serve as a basis for such materials, despite interdisciplinary scientific approaches and analyzes.

The applicant participates in these projects only as a member of the team. More initiative, creativity and independence in project development, given the skills acquired in previous years.

6. Conclusion.

Based on the analysis of the pedagogical, scientific and scientific-applied activity of the candidate, I believe that Ch. Assistant Professor Dr. Radost Petrova Petrova meets the requirements of ZRASRB, PPZRASRB and the Regulations of the Agrarian University for its application. They are presented in sufficient volume and quality of scientific papers. All scientometric indicators for holding the academic position of "Associate Professor" have been met. There are significant scientific contributions as well as teaching experience.

All this gives me reason to positively evaluate its overall activity.

I allow myself to propose to the esteemed Scientific Jury to vote more **positively**, and the Faculty Council of the Faculty of Viticulture and Horticulture at the Agricultural University - Plovdiv to elect Ch. Assistant Professor Dr. Radost Petrova Petrova for "Associate Professor" in the scientific specialty Reclamation.

15.02.2021
Stara Zagora

Prepared opinion:

(Assoc. Prof. Dr Antoniya Stoyanova)