

OPINION

on a competition to occupy an academic position "Associate Professor" in the professional direction 5.7. "Architecture, civil engineering and geodesy" (General, higher and applied geodesy).

The competition has been announced in the State Gazette no. 79 of the 08.10.2019

Candidate: Chief assistant Evgeni Grishev Stoykov, PhD

Member of the scientific jury: Prof. Dr. Eng. Chavdar Iliev Aleksandrov

1. A common feature of the applicant's research and scientific activities

The candidate for the participation in the competition for the occupation of the academic position "Associate Professor" in the Department "Geodesy" of the SHU "Bishop Konstantin Preslavski" works in the same university from 01.09.2012. After training in doctoral studies he defended a dissertation on "General, high and applied geodesy" on the topic "Investigation of the possibility of using the two-speed GPS receiver in RTK mode for creating a working geodesic basis, filming and tracing of objects" in 2015. The scientific production outside the dissertation is also entirely in the field of geodesy and the use of modern, technical tools and application software to solve specific application tasks. The candidate is included in the Register of the academic staff and the protected dissertation works in the NACID and has established the knowledge indicators.

In the competition for "Associate Professor" the candidate participates with monographic work and 13 more publications, of which a magazine article (included in the national Reference List as the edition of the Union of Surveyors in Bulgaria), a publication from participation in national scientific Conference, 6 publications in the Yearbook of the Technical Sciences Faculty of Shumen University and 5 in collections with reports from the scientific conference "Mattex", organized also by the faculty. The candidate is a standalone author of 9 publications and has indicated 17 citations of 6 of his works. He has participated in 13 scientific and scientific education projects.

All the works of the candidate, presenting his research and research activities, are in the field of the competition and comply with the requirements of the normative documents as follows:

A – Indicator 1	50 pts.	minimum requirements of 50 pts.
C – Indicator 3	100 pts.	minimum requirements of 100 pts.
D – Amount of Indicators 5 – 11	200.6 pts.	minimum requirements of 200 pts.
E – Amount of indicators 12 – 15	51 pts.	minimum requirements of 50 pts.
Total	401,6 pts.	minimum requirements of 400 pts.

2. Assessment of the pedagogical training and the activity of the applicant.

Chief assistant Stoykov started teaching work in the Department of Geodesy of the SHU in 2012, where he was chief assistant at the time of announcing the competition. He teaches various disciplines from the curriculum of the Faculty of Technical Sciences at the University of Shumen – Digital Image Processing, Geodesy II Part, Marine Geodesy, GNSS Application in Geodesy etc. There is no information about the annual workload of the applicant's subjects, as well as the number of training materials developed, lectures, cycles with laboratory exercises and/or seminars, diploma-led graduates, course projects, etc. Despite the lack of data, I believe that during the eight years of work in the Chief assistant Evgeni Stoykov has accumulated sufficient pedagogical experience and has enough good preparation for work as a trained teacher.

3. Basic scientific and scientific-applied contributions.

Contributions from the research and pedagogical activities of the applicant can be combined in the following areas:

3.1. Analysis and evaluation of methods for determination of coordinates with the help of satellite positioning systems, including a method for kinematic mode in real time (realtime Kinematic, RTK) and for creating a working geodesic basis, geodesic shooting and tracing sites:

3.2. Statistical analysis and assessment of the differences from the measurements obtained using classical geodetic methods and satellite positioning systems:

3.3. Development of a methodology for creating a working geodesic basis, surveying and tracing of objects using satellite positioning systems in RTK mode for measurements of varying duration:

3.4. Conducting real experimental research to demonstrate the reliability of the analyses carried out and the developed methodologies and technologies.

4. Importance of contributions to science and practice

In theoretical terms, the applicant's contributions are related to research in the field of geodesy and filming and tracing of sites using classical and modern high-tech methods and technologies. The applied aspect of the research is related to performing experimental work for capturing real objects with specific practical significance.

In 9 of all 13 publications, proposed for participation in the competition, the candidate participates independently, and in the other 4-with two and more co-authors. The joint publications do not present any copyright documents to the other authors, which is why I believe that the participation of the co-authors is equitable. In the works prevail research in the field of geodesy and geodesic filming and tracing of objects using satellite positioning systems, analysis of geodetic methods, technologies and systems, as well as use of modern Research tools including hardware and software. This gives me a reason to believe that the main contributions to the works submitted for participation are on the subject of the competition and are a personal work of the candidate.

5. Critical remarks and recommendations

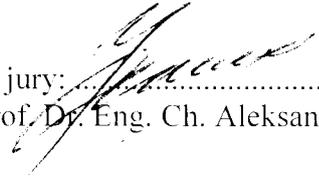
Applicant's posting activity regulatory requirements both quantitatively and as content. It can be seen, however, that the majority of publications are made in the publications of the faculty, in which the candidate also works in the University edition of the SHU. It would be good in the future for the applicant's posting activity of the candidate to be directed mainly to more specialized indexed editions abroad, suitable for publication in his scientific specialty. This will also raise the chances of more and more diverse citations which, when participating in this competition, are confined to publications of three authors working in the same faculty and do not appear in any known nautic basis.

CONCLUSION

Chief assistant Evgeni Grishev Stoykov, PhD has presented for participation in the competition for "Associate Professor" sufficient scientific production, focused mainly in the field of geodesy, surveying and tracing of objects for solving real problems in the field of geodesic practice. The presented works are on a good theoretical level, with a sufficient number of citations and meet the requirements of the regulatory documents. The applicant's pedagogical experience also meets the requirements. All this gives me enough reason to propose a Chief assistant Evgeni Grishev Stoykov, PhD to take the academic position "Associate Professor" in the Department of Geodesy of the SHU "Bishop Konstantin

Preslavski" in the professional direction 5.7. "Architecture, civil engineering and geodesy"
(General, higher and applied geodesy).

07.01.2020
Varna

Member of the Scientific jury: 
/ Prof. Dr. Eng. Ch. Aleksandrov /