

O P I N I O N

on a competition for academic position of "**Associate Professor**"
in a professional field 5.7. „Architecture, civil engineering and geodesy” (General, Higher and Applied Geodesy),

The competition was announced in the SG, Issue 63 of 17.07.2020

Candidate: Chief assist. Dr. Kiril Filipov Yanchev

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

1. General characteristics of the applicant's research and scientific activities

The candidate for participation in the competition for the academic position "**Associate Professor**" in the Department of Geodesy of The University of Shumen "Bishop Konstantin Preslavski" has been working at the same university since 01.02.2017. After studying for a PhD, he defended his dissertation on "General, Higher and Applied Geodesy" on the topic "Study of the influence of geodynamic processes on geodetic measurements and networks" in 2017. The scientific production outside the dissertation is also entirely in the field of geodesy and the use of modern technical means for geodetic measurements in solving specific applied problems. The applicant is included in the register of academic staff and protected dissertation papers in NACID and has introduced scientific indicators.

In the competition for "Associate Professor" the candidate participates with monographic work and 11 other publications, of which two articles in a magazine (included in the National Reference List as an edition of the Union of Surveyors in Bulgaria), three articles in an international journal of the university publishing house "Bishop Konstantin Preslavski" (included in the EBSCO database), five publications in the yearbook of the Faculty of Technical Sciences of the University of Shumen and one in a compendium of reports from the scientific conference "MATTEX", also organised by the Faculty of Technical Sciences. The candidate is an independent author of 9 publications and has indicated 17 citations in 2 of his works. He has participated in 1 research project, led course projects of students from the Faculty of Technical Sciences of the University and is a member of the Chamber of Engineers in Investment Design.

All works of the applicant representing his research and scientific application are in the field of the competition and comply with the requirements of the normative documents as follows:

A – Indicator 1	50 p.	min. requirements of 50 points
B – Indicator 3	100 p.	min. requirements of 100 points
G – Sum of Indicators 5 -11	200 p.	min. requirements of 200 points
D – Sum of Indicators 12 – 15	51 p.	min. requirements of 50 points
Total	401 p.	min. requirements of 400 points

2. Assessment of the applicant's pedagogical training and activities.

Chief Assistant Yanchev started teaching work in the Department of Geodesy of Shumen University in 2017, where he was chief assistant at the time of the announcement of the competition. He teaches a wide range of disciplines from the curricula of the Faculty of Technical Sciences at the University of Shumen – Vertical Planning 1st and 2nd part, Regulation, Geoid modelling, Geodesy Practice 1st and 2nd part and Geodetic networks, Geoinformatics, etc. There is no information about the annual horarium in the candidate's disciplines, as well as the number of training tools developed, lecture courses, cycles with

laboratory exercises and/or seminars, guided by graduates, course projects, etc. Despite the lack of data, I believe that during the years in which he worked in the Department of Chief Assist. Kiril Yanchev has gained sufficient pedagogical experience and has a sufficiently good preparation for work as a habilitized teacher.

3. Main scientific and applied contributions.

The contributions from the candidate's research and pedagogical activities can be pooled in the following areas:

3.1. Analysis and evaluation of geodetic methods for observation and tracking of geodynamic processes using satellite positioning systems, including determining their influence on the accuracy of geodetic measurements;

3.2. Development of a methodology for the study of geodynamic processes using the results of the mathematical processing of the tracking and reproduction of interblock slip and the change in the condition of certain regions with specific geodynamic characteristics and purpose;

3.3. Development of an up-to-date geoinformation model of evolutionary processes occurring in the formation and movement of blocks in areas used for geodetic measurements;

3.4. Conducting real experimental studies to demonstrate the impact of local geodynamic processes on the configuration of geodynamic measuring networks.

4. Importance of contributions to science and practice

Theoretically, the applicant's contributions are related to research in the field of geodetic measurements and modelling of extreme sections of the geoid using modern high-tech methods and technologies. The applied aspect of the research is related to performing experimental work to measure real objects with specific geodynamic characteristics.

In 9 of the 11 publications proposed for participation in the competition, the candidate participated independently and in the remaining 2 with one co-author. No copyright documents of the other author have been submitted for the joint publications, so I believe that the involvement of the co-authors is equal. The works are dominated by research in the field of geodesy and geodetic measurements, monitoring of geodynamic processes using modern geodetic methods, technologies and systems, as well as the use of a modern research toolkit involving modeling and use of technical means. This gives me reason to believe that the main contributions to the works submitted for participation are on the subject of the competition and are the personal work of the candidate.

5. Critical notes and recommendations

The candidate's audience activity complies with the regulatory requirements, both quantitatively and as content. The majority of the publications are made in editions of the faculty in which the candidate also works in the university edition of Shumen University. It would be good in the future for the candidate's audience activity to focus mainly on more specialized indexed publications abroad, suitable for publication on his or her scientific specialty. This will also increase the chances of more and more diverse citations appearing in one of the known learnometric bases – Scopus, WoS, Google Scholar, etc.

CONCLUSION

Chief Assistant Dr. Kiril Yanchev has presented for participation in the competition for "**associate professor**" sufficient scientific production, aimed mainly at the field of geodesy, geodetic measurements for solving real problems in the field of geodetic practice. The submitted developments are at a good theoretical level, with a sufficient number of citations and meet the requirements of the regulating documents. The applicant's pedagogical

experience also meets the requirements. All this gives me sufficient reason to propose Chief Assistant Dr. Kiril Filipov Yanchev to take the academic position "**Associate Professor**" in the Department of Geodesy of the Shumen University "Bishop Konstantin Preslavski" in professional field 5.7. "Architecture, civil engineering and geodesy (General, Higher and Applied Geodesy)".

22.10.2020

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