

## **POSITION**

**by Assoc. Prof. Dr. Eng. Mila Atanasova-Zlatareva**  
National Institute of Geophysics, Geodesy and Geography-BAS

Member of the Scientific Jury, approved by Order No. 121 / 12.03.2021 of  
the Rector of the Higher School of Civil Engineering "Lyuben Karavelov"

on the materials submitted by  
**ch. Assistant Professor Stanislav Petrov Tsvetkov, PhD,**

participates the competition announced by the University of Structural Engineering and Architecture (VSU) „L. Karavelov- Sofia for the academic position "Associate Professor" (State newspaper issue 15 / 19.02.2021) in the field for higher education: 5. Technical sciences; professional field: 5.7. Architecture, construction and geodesy, Building structures (Reinforced concrete structures)

### **1. Brief biographical information**

The candidate Ch. Assistant Professor Dr. Eng. Stanislav Tsvetkov has a bachelor's degree from the University of Structural Engineering and Architecture (VSU) „L. Karavelov - since 2009, and in 2011 he graduated with a master's degree in Construction of buildings and facilities - specialization Building Structures. Acquired a doctorate at University of Structural Engineering and Architecture (VSU) „L. Karavelov - in 2018, on "Antiseismic provision of special reinforced concrete structures." The candidate eng. Stanislav Tsvetkov holds the position of assistant at the Department of Building Structures at VFU "Lyuben Karavelov" from 2010 to 2014, from 2014 to 2019 he is a part-time assistant, and in 2019 he has been appointed to the position chief assistant in the department.

Chief Assistant Dr. Stanislav Tsvetkov is Secretary of the Academic Council of VSU "Lyuben Karavelov".

### **2. General description of submitted materials:**

- Notarized copy of the diploma for: higher education (Bachelor's degree and Master's degree) and notarized copy of the diploma for educational and scientific degree "Doctor" - PhD;

- Curriculum vitae;
- Monograph - main habilitation work and monograph, which is not presented as main habilitation work;
- Summaries of submitted papers;
- Certificate for full projects qualification from Chamber of Engineers in Investment Design Sofia-city, Constructions of buildings and facilities section; Reference from a construction design firm and from civil engineer from practice; Diplomas from the Kolyu Ficheto competition (NTSSB) of graduates, with a supervisor - the candidate in the competition;
- Questionnaires, assignments and projects - supporting materials;
- Information on the activity and the scientific and scientific-applied contributions in fulfilling the requirements for holding the academic position of “associate professor”, according to the Higher Education Act (+ Application for scientometric indicators);
- Author's reference for the scientific contributions and citations;
- List of publications, inventions and other scientific and applied developments, as well as the summaries provided in Higher Education Act Article 27 (1) of the Law for the development of the academic staff;
- Other documents, connected to scientometric criteria.

### **3. General characteristics of the candidate's activity:**

#### **3.1. Scientific and scientific-applied activity:**

Results from the committed by the candidate chief assistant Dr. Stanislav Tsvetkov scientific and applied research with presented in: 4 articles in journals, 20 published reports from scientific conferences, one article in print, one monograph (habilitation thesis) and two other monographs.

- The monograph (habilitation thesis) is entitled "Reinforced concrete structural shear walls - anti-seismic discs", published by VSU "Lyuben Karavelov", ISBN 978-954-331-115-6, 398 pages, 2020.

- The other independent monograph "Constructors for civil engineers - the prefabricated one-storey buildings of reinforced concrete elements", published by VSU "Lyuben Karavelov", ISBN 978-954-331-103-3, 388 pages, 2019.

- Monograph "Innovations in industrial Architecture", published by VSU "Lyuben Karavelov", ISBN 978-954-392-634-3, 183 pages, 2020 has one co-author.

- 24 pcs. - Publications in journals and conference proceedings (editions), included in the National reference list of contemporary Bulgarian scientific journals with scientific evaluation. One of the publications is in English and the rest in Bulgarian.

- One of the articles is the publication, which is referenced and indexed in world-famous databases of scientific information.
- Eight publications of Chief Assistant Stanislav Tsvetkov with independent, 16 - with one co-author, and one - with two co-authors.

The scientific works of Chief Assistant Dr. Stanislav Tsvetkov is in the field for computer modeling and simulation in the study of building structures, mainly reinforced concrete structures. The candidate is a participant in research projects at VSU "Lyuben Karavelov".

### **3.2.Educational and pedagogical activity:**

The candidate chief assistant Dr. Stanislav Tsvetkov is a lecturer in disciplines at VSU "Lyuben Karavelov": Reinforced concrete structures, Masonry structures, Restoration and strengthening of structures of reinforced concrete / building structures, Modern computer calculation methods in building design, Computer methods for construction design of building / Modeling of building structures.

Conducts exercises in Reinforced Concrete, Reinforced Concrete Structures, Special Reinforced Concrete Structures, Modern Computer Calculation Methods in Building and Structural Design/ Computer Methods for Designing Building Structures, Automation of Building and Structural Design, Modeling of Building Structures, Bridges, Steel Structures, Wooden structures.

He is a research supervisor of 154 diplom thesis and a research supervisor of 5 research graduate projects. He is a reviewer of over 20 diploma projects.

Chief Assistant Stanislav Tsvetkov is an academic Mentor in the "Student Internships" program of the Ministry of Education and Science of more than 50 students.

Chief Assistant Stanislav Tsvetkov is involved in the development of curricula in the disciplines of the Department "Building Structures", Methodological Materials and Guides for Course Design. He is the technical editor of two Course Design Guides for "Industrial Buildings for Architects" - 2019.

### **4. Contributions:**

The scientific contributions of Chief Assistant Dr. Stanislav Tsvetkov is formulated in three main groups:

- Analysis of reinforced concrete beams;
- Analysis of reinforced concrete walls as structural elements;
- Analysis of various reinforced concrete structures.

They are associated with different types of building structures using different approaches: modeling, numerical experiments and in-depth analysis of the results.

Judging by the publications, the contributions of Ch. Assistant Professor Dr. Stanislav Tsvetkov are with a fundamental and applied character and are from his personal work or with a major contribution to co-authorship.

The applicant transfer of requirements a minimum of 50 points for the scientometric indicators under paragraph "D" of NACID.

#### **6. Evaluation of the personal contribution of the candidate:**

From the presented materials by the competition, it can be categorically stated that they are of the candidate or have been developed with his active participation.

#### **7. Critical remarks and recommendations:**

I would recommend the candidate to publish his research in journals and proceedings of scientific conferences on indexed or referenced in international indexing and referencing systems "Scopus" and "Web of science". In this way, the achieved scientific results will be visible and quoted in scientific journals, referenced and indexed in world-famous databases with scientific information.

#### **5. Personal impressions:**

I do not know the candidate personally ch. Assistant Professor Dr. Stanislav Tsvetkov, but I have a positive opinion of the materials presented in the competition. Chief Assistant Dr. Stanislav Petrov Tsvetkov meets the scientometric criteria of NACID for the position of "Associate Professor", which can be seen from the data in the attached table

	Group of indicators	Contents	Minimum number of points required	Performed by the candidate
<b>Mandatory:</b>	<b>A</b>	Content 1	50	<b>50</b>
	<b>B</b>	Content 3	100	<b>100</b>
	<b>Г</b>	Sum of indicators from 5 to 11	200	<b>376,67</b>
	<b>Д</b>	Sum of indicators from 12 to 15	50	<b>221*</b>
<b>Additional–optional:</b>	<b>E</b>	Sum of indicators from 16 to the end	-	<b>30</b>
<b>Total:</b>			400	<b>777,67*</b>

## 9. Conclusion

I think that the research and teaching activities of Ch. Assistant Professor Dr. Stanislav Tsvetkov fully met the requirements for Law for development of the academic staff in the Republic of Bulgaria and the Regulations for the conditions for acquiring scientific degrees and performing academic duties at the University of Structural Engineering and Architecture (VSU) „L. Karavelov- Sofia.

I propose to the esteemed scientific jury to propose to the faculty council Ch. Assistant Professor Dr. Stanislav Tsvetkov to take the academic position of "Associate Professor" at VSU “L. Karavelov”. with a professional field 5.7. Architecture, construction and geodesy; Building structures (Reinforced concrete structures).

25.05.2021  
Sofia

**Member of the scientific jury: .....**  
/ Assoc. Prof. Dr. Mila Atanasova-Zlatareva /