

## STANDPOINT

for participation in a competition for an academic position "Associate professor"  
in scientific field 5 Technical sciences  
professional field 5.5 Transport, navigation and aviation  
study discipline "Testing and control of transport vehicles"  
posted in SG issue 31/19.04.2022  
with a single applicant: Assistant Professor Eng. Veselin Todorov Mihaylov, PhD  
Member of the scientific jury: Assoc. Prof. Eng. Radostin Dimitrov Dimitrov, PhD  
According to Rector's Order 538/19.07.2022



### 1. General characteristics of the candidate's research and applied scientific activity

Assistant professor Veselin Todorov Mihaylov completed his higher education at the Technical University - Varna, majoring in "Transport Engineering and Technologies" in 2007. He defended his doctoral dissertation in 2016. In 2008 was appointed to the position of assistant professor at the department of "Transport Engineering and Technologies" at TU-Varna, and in 2017 was reassigned to the position of senior assistant professor.

The following works are submitted for participation in the competition for "Associate professor":

- 1.1 According to indicator „B.4“ - 10 publications, indexed in world renowned database Scopus;
- 1.2 According to indicators „Г.7“ and „Г.8“ - 25 publications, three of which are indexed in Scopus;
- 1.3 According to indicator „Д.12“ - 7 citations of the candidate's works are presented.

For evaluation, I accept 35 papers in which the candidate's participation is as follows:

- First author in 4 papers.
- Second author is in 16 papers.
- Third author is in 7 papers.
- Fourth and next author is in 8 papers.

All publications are on the topic of the competition, with 14 in Bulgarian and 21 in English.

For the period 2009 - 2021 assist. prof. Veselin Todorov Mihaylov has participated in 19 scientific projects from the internal competitions of TU-Varna. He has participated in two projects under National Science Fund (FNI), being the head of one of them.

As a project manager the candidate has attracted funds to the university and the department in which he works worth BGN 60,000.

He is a member of the Territorial Organization of Scientific and Technical Unions (NTS) - Varna and the Polish Scientific Society of Combustion Engines (PTNSS).

**Conclusion** - assist. prof. Veselin Todorov Mihaylov, PhD fulfills the minimum national requirements for all groups of indicators for "Associate professor", some of which have been significantly exceeded - groups „Д“ and „Ж“.

## **2. Assessment of the pedagogical preparation and activity of the candidate**

For the last three years assist. prof. Veselin Mihaylov has conducted lectures and labs in more than 10 disciplines with students from academic degrees "Bachelor" and "Professional Bachelor" with students from TU-Varna, KSTU-Varna and DTC- Dobrich. He also conducted lectures and lab exercises with "Master" degree students in 5 different disciplines in several specialties.

Assist. prof. Veselin Todorov Mihaylov has participated in more than four mobilities under the Erasmus+ program abroad in four different European universities. He also conducted two specializations in Poland and Japan.

The candidate has been the supervisor of 17 "Master" degree graduates and has also worked on four different projects with students, being the supervisor as well.

Conclusion - I assess the pedagogical qualification of the candidate at a very high level for the required academic position "Associate Professor".

## **3. Main scientific and applied contributions**

In the presented 35 scientific works of the candidate, scientific contributions related to the following thematic areas can be singled out:

Thematic direction 1. - Basic methodologies for testing engines and transport vehicles;

Thematic direction 2. - Study of fuel injection parameters for internal combustion engines (ICE);

Thematic direction 3. - NVH characteristics of ICE and transport vehicles;

Thematic direction 4. - Factors affecting the development of the work process (additives to fuels, alternative fuels).

The contributions contained in the candidate's works can be attributed to the following groups:

- Scientific contributions - 9;
- Scientific and applied contributions - 14;
- Applied contributions - 12;
- Citations - 7.

As can be seen, there are significant scientific, scientific-applied and applied contributions, some of which are the candidate's personal work or were obtained with his decisive participation. The citations of these works speak for the recognition of the candidate by the scientific circles in the field at home and abroad.

## **4. Significance of the contributions to science and practice**

The large number of scientific, scientific-applied and applied contributions enrich the theory, teaching material and practice in the field of the announced competition. Taking into account that the candidate presents 35 papers with his participation, 13 of which have been published in international scientific conferences and journals, indexed in the world- renowned

databases (Scopus), shows that the candidate is at a high scientific and technical level.

The presented citations of his works speak for the recognition of the candidate from the scientific circles at home and abroad.

The quantitative indicators of the criteria for the occupation of the academic position "Associate Professor" have been fulfilled.

I find that assist. prof. Veselin Mihaylov is a highly qualified specialist and a recognized researcher and educator in the field of automobiles, engines and transport technology.

#### ***5. Critical remarks and recommendations***

I have no objections to the scientific works of the candidate. Provided that we have joint participation in some of the scientific researches, I can confirm the high scientific and pedagogical training of the candidate – assist. prof. Veselin Todorov Mihaylov.

### **CONCLUSION**

I know the candidate personally, and based on the presented documents, materials and scientific works, their importance and the scientific, scientific-applied and applied contributions contained in them, I believe that assist. prof. Veselin Todorov Mihaylov, PhD, fully meets the requirements of ZRASRB, the Regulations for its application and the Regulations of the Technical University - Varna for holding academic positions. For this reason, I give my positive assessment and recommend the respected Scientific Jury to support the candidate assist. prof. Veselin Todorov Mihaylov for the academic position " Associate professor " in the Scientific field 5 Technical Sciences, professional field 5.5. Transport, navigation and aviation, study discipline "Testing and control of transport vehicles".

26.08.2022  
Varna

Jury member:  
/Assoc. prof. R. Dimitrov, PhD/