**NEW CONTRIBUTIONS OF THE THESIS**

**Thesis topic**: ***Research on the current situation and proposal for solutions to improve the basic research funding quality in the fields of natural science and engineering in Vietnam.***

**Specialty:** Science and Technology Management Code:9340412

**Research student**: Nguyen Thi Phuong Research student code: ………

**Instructors:** 1. Assoc. Prof. Dr. Mai Ha

2. Dr. Do Tien Dung

**Training institution:** Vietnam Institute of Science Technology and Innovation.

**Academic and theoretical contributions**

***Firstly,*** the study has clarified the concept of basic research funding quality, which is rarely mentioned in previous studies, or mentioned in individual angles (such as funding efficiency or funding outcome). This concept is consistent with the theoretical approach to quality defined by mission and objectives (Bogue. EG & Saumders, 1992) and can be reffered by further research to develop evaluation criteria as well as the factors affecting the basic research funding quality in Vietnam.

***Secondly,*** the study has identified six criteria (including relevancy, effectiveness, efficiency, sustainability, results, and impacts) to evaluate the quality of basic funding based on the scales (24 scales) of CFA test.

***Thirdly,*** the study has identified three factors (funding organization, host organization and scientist) with the degree of influence of each factor on the basic research funding quality in the fields of natural sciences and engineering. The study also conducts a survey to evaluate the impact of each of the above factors on the quality of research basic funding in Vietnam recently.

**Findings and proposals of the study**

***Firstly,*** the study has shown the status of the basic research funding quality in the fields of natural sciences and engineering in Vietnam in the period 2009-2019. The results of evaluating the current status of basic research funding quality with six criteria show that the criterion of "sustainability" is the highest rated with an average score of 4.18/5 points. This affirms the role of basic research in the field of natural science and technology as a premise for other types of research and enhance knowledge for mankind for sustainable socio-economic development.

***Secondly,*** based on the results of evaluating the current status and testing the affecting factors of the basic research funding quality, the study has proposed some solutions to improve the basic research funding quality in Vietnam.

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| **On behalf of the Instructors**  *(Signed and full name)*  **Do Tien Dung** | **The Research Student**  *(Signed and full name)*  **Nguyen Thi Phuong** |