

## **Steps to better research**

The research work of students is an integral part of the educational process. Scientific conferences, laboratories and training practices – all these things allow the student to begin full scientific work. Anyway, all students are involved into the research work. However, not every student is willing to spend the time to write a deep research, which does not oblige to engage in the curriculum. [1] The main reason for this attitude of students to research is the lack of motivation, as more and more students do little research and write essays or coursework, being completely uninterested in the subject of their work – all this leads to a deterioration in the quality of research work. That is why the problem of increasing the motivation and productivity of the research work is relevant today.

The purpose of this study is to examine the various ways of increasing students' motivation to research work, the allocation of conditions conducive to a positive interest in writing a research paper, as well as consideration of various options to improve the performance of scientific work.

During the study, two problems have been solved. Firstly, studied ways to improve motivation and an environment conducive to the formation of a positive interest in the writing of the research work. Secondly, considered possible options for increasing the effectiveness of scientific work.

A leading role in improving the quality of training plays a scientific and research work of students. Students engaged in scientific work, develop some critical qualities such as creative thinking, the ability to defend their point of view, the ability to use different sources of information and analyze data, as well as responsibility. Because of these qualities, each student becomes more competitive specialist. However, not all students are ready to improve themselves and work – this is due to the lack of motivation.

It is well known that motivation is of two types: external and internal. External motivation is caused by external circumstances. For example, your friend bought a car and you have born the motivation to make money and also buy a car. Internal motivation is not connected to external circumstances, and grows within man himself. [3] So while writing the research work both kinds of motivation play an important role.

Each university is trying to do everything possible to increase student's motivation and creates a variety of conditions helping to form of positive interest among students for research work. Tomsk Polytechnic University is not an exception.

There is an involvement of students in research activities in the early stages of learning among the ways to increase motivation for the research work. This is good because it helps to instill a love for their future profession, to get the pursuit of knowledge, to increase an outlook in the future. All these factors help to reveal in future graduates their professional talent, the ability to solve any problem.

Nowadays, students are often involved in solving real urban, regional or federal issues in the context of innovative education. Implementation of joint scientific work of students from senior and junior courses, which makes it possible to attract potential new ideas in solving scientific problems, as undergraduates, still not having basic knowledge of classical, can find the nonstandard explanation of the problem. At the same time, they are learning to work together, overcome any psychological barriers in communication, enhance their intellectual and research levels.

The conditions helping to form students' positive interest in scientific work, include: awareness of the immediate and ultimate goals; awareness of the theoretical and practical significance in acquiring knowledge; showing «promising lines» in development; professional guidance for the

solution of scientific problems; range of tasks created problematic situations in the structure of scientific activity; curiosity and «cognitive psychological climate» in the study group. [2]

Thus, the research work of students is a form of educational process, which combines training and practice. The student first study a variety of theoretical skills, and then uses them to perform practical tasks. Conducting research projects and experiments is an important factor in the training of young professionals. Students acquire the qualities necessary for their future professional activity: they generates some skills for focused and thoughtful work, acquire independence of opinion, have a versatile point of view at various issues, as well as the ability to be concentrated. That's why, each student should take the initiative in planning and conducting research projects, to develop his internal motivation, because science is not a «boring process», it is a huge world of incredible and exceptional items and the student, going up the stairs of knowledge, not only learns to work effectively and fruitfully, wasting a lot of free time and energy, but also receives a lot of fun from the process of climbing, as acquired knowledge will help him in the work and study, as well as in his personal life, and give him the opportunity to live life, not knowing the word «boredom» [1].

### References

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