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Improving the Staffing of the Agro-industrial Complex of the Belgorod Region on the Basis of Partnership between Education and Business

A.A. Belov¹; E.V. Belova²; I.V. Gordienko³; E.V. Shvarev⁴

1,2,3,4 Department of Professional Education and Socio-pedagogical Disciplines, "Belgorod State Agrarian University named after V.Ya. Gorin", Russia.

> ¹belov-a-a@yandex.ru ²belova-el-v@yandex.ru ³girina@mail.ru 4shvarev_ev@bsaa.edu.ru

Abstract

In this article, the authors investigate an urgent problem for the Belgorod region related to the provision of the agro-industrial complex of the region with highly qualified and innovation-oriented personnel. The results of the sociological research carried out by the authors convincingly indicate the existence of a significant gap between the requirements of modern employers to workers and the quality of knowledge, skills and abilities that university graduates currently possess. The overly theoretical nature of the education received and its isolation from the realities of production activity are noted. To eliminate the gap that has arisen, according to the authors, it is possible only if the mechanisms of social partnership between education and business are actively developed. On the example of the Belgorod State Agrarian University named after V.Ya. Gorin, the authors of the article investigate a successful example of organizing such a partnership.

Key-words: Agro-industrial Complex, Education and Business, Agricultural Science and Innovations.

1. Introduction

In recent years, the agro-industrial complex has become a key and, in many respects, a backbone branch of the economy of the Belgorod region, as evidenced by the achieved results of its functioning.

According to the Department of Agroindustrial Complex and Environmental Reproduction of the Belgorod Region in 2020, the region, possessing slightly more than 1% of the total population of

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the Russian Federation and about 1% of the total Russian arable land area, provided 4.6% of the gross agricultural product produced in the country. In the Belgorod region, almost 18% of all pork and 12% of chicken meat are produced in the Russian Federation. In addition, the region accounts for 8.5% of the total volume of sunflower oil produced in the country, 6% of sugar, 2.2% of milk and dairy

products, as well as 17% of the all-Russian production of compound feed [17].

At present, the agro-industrial complex of the Belgorod region does not stop building up its investment and production potential, focusing not only on a quantitative increase in production volumes, but also on improving the quality and competitive advantages of products manufactured by agro-industrial enterprises, which is necessarily accompanied by the active development of material and technical and scientific and technological base of agro-industrial production. There is an increasingly active introduction of the latest achievements of agricultural science and innovations, both in production and technological processes, and in production management processes. Accordingly, the requirements for the level and quality of personnel training for agro-industrial enterprises of the Belgorod Region are changing. The need to provide them with innovatively oriented employees who are able to effectively carry out labor activities at workplaces equipped with the most modern equipment and requiring special training, who are ready to make responsible production decisions and take responsibility for their implementation, is being actualized.

The system of higher education is called upon to satisfy the need of the regional agro-industrial complex in qualified, professionally trained specialists. However, as a result of systemic mistakes made in the course of the radical socio-economic reform of Russian society, carried out in the 90s of the last century, the rather close relationship of higher education with production, which was formed in the conditions of a planned economy when fulfilling a state order for the training of highly qualified personnel [22].

The lack of close interaction between higher educational institutions and enterprises in the process of personnel training has led to the emergence of a number of trends, the negative impact of which is still felt.

First, the structure of specialties and areas of training in which qualified specialists are currently being trained has ceased to correspond to the needs of the modern labor market. Universities often do not have time to respond in a timely manner to the dynamic change in these needs and continue to train specialists in little-demanded areas. Moreover, as noted by T.V. Menshikov, "many areas of training of qualified personnel necessary for the region are, in principle, not represented" [19].

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Secondly, there was a "devaluation of diplomas". The increase in the availability of higher

education, the growth of its demand among the population, in the absence of reliable information

about the prospects for employment in a particular specialty, contributed to the fact that obtaining

higher education is no longer a guarantee of quick and successful employment. A unique situation has

developed on the regional labor market when, with an excess of highly qualified labor force, there is

a deficit in workers of certain specialties, which can hardly be replenished in the near future.

Thirdly, there was a general decline in the quality of training of specialists in various

programs of higher education. Today, enterprise managers often refuse to employ university

graduates in the chosen field of study, since the latter, in their opinion, do not have the necessary

practical experience, and the predominantly theoretical education received at the university does not

take into account the realities of modern production [5].

Thus, on the one hand, there is an urgent need to provide the agro-industrial complex of the

Belgorod region with personnel, as much as possible adapted to the modern requirements of

employers, able to effectively carry out labor activities in any area of work requiring special training,

oriented in promising production and management technologies, capable of self-study and innovative

activities, and, on the other hand, based mainly on traditional approaches, the system of higher

education in the region is not able to fully satisfy this need. To resolve the contradiction that has

arisen, in our opinion, will allow the introduction of social partnership mechanisms into the training

system for the agro-industrial complex of the region.

This circumstance determined the choice of the purpose of the presented study, which consists

in determining the role of social partnership between education and business in improving the staffing

of the agro-industrial complex in the region.

2. Materials and Methods

The presented article was prepared on the basis of materials of a sociological study, which

was carried out by the authors by the method of a questionnaire survey of students of the Belgorod

State Agrarian University named after V.Ya. Gorin based on a quota sample. The faculty and the

course of study of students were accepted as quotas. The total sample size was 352 people.

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3. Results and Discussions

The formation and further development of the institution of social partnership between

science, education and business is currently becoming one of the most effective innovative

approaches to train specialists with higher education that meet the modern needs of the labor market.

Social partnership in the field of personnel training involves the formation of a system of long-term

and mutually beneficial interactions between educational institutions, industrial enterprises and other

subjects of the labor market, ensuring the implementation of the common interests of these partners

related to improving the quality of training and developing the human resources of a region, industry

or individual enterprise [18].

Continuous interaction of higher education institutions with industrial organizations that are

potential employers for their graduates, implemented in the system of social partnership, builds

contractual relations of an organizational, economic and pedagogical nature. The presence of these

various kinds of contractual relations allows us to consolidate the rules and norms for the

implementation of interaction jointly developed by partners and to consolidate their efforts aimed at

achieving the common goal facing the partners.

Note that the goal of social partnership, which is to provide the agro-industrial complex of the

Belgorod region with professionally trained competitive specialists motivated for productive work, is

currently quite well understood by all subjects of social partnership, not only employers, but also

educational institutions, as well as, which is especially important students studying in them.

Students, being the key consumers of educational services provided by universities, quite

clearly understand the importance that higher education has today for their achievement in life. It is

no coincidence that more than half (54.0%) of the students of Belgorod State Agrarian University

who took part in the survey are firmly convinced that getting a good higher education can ensure

success in their lives. Almost a third of the survey participants (32.7%) also share this confidence, but

their assessments are not so categorical. Only 12.4% of students do not consider higher education as a

guarantee of success in life.

However, the results obtained only reflect the importance of higher education in the system of

life values of students and, in general, characterize their value expectations. In order to determine the

degree of correspondence to these expectations of higher education received by students at BelGAU,

they were asked whether this education would contribute to the achievement of success in life. The

responses received turned out to be somewhat less optimistic. Despite the fact that most of the

students who participated in the study are still more (40.9%) or less (30.4%) confident that the

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achievement of life success will be helped by what they received at BelGAU higher education, the share of those who hold the opposite opinion is higher in this case and reaches 20.7%. Among the reasons that determined some students' dissatisfaction with the education they are currently acquiring were such as the discrepancy between the acquired knowledge and skills due to their excessive theorization (almost two thirds (64.5%) of the students drew attention to this, dissatisfaction with the quality of the received higher education), the lack of targeted preparation for solving urgent life and professional problems (40.8% of survey participants think so), as well as insufficiently high demand in the labor market for specialists in the profile of their education (24.4% of respondents were dissatisfied with this circumstance). In addition, the share of those students who doubt the compliance of the education received at BelGAU with world standards (22.4%), as well as those who are dissatisfied with the level of application of information and digital technologies in the education process (19.1%), is also quite large.

Thus, the data obtained in the course of the study clearly indicate not only that students are quite clearly aware of the problems common to the higher education system caused by its insufficient focus on the actual needs of the labor market [2], but also accordingly adjust their requirements for quality and the content of the received higher education.

Note that the quality of higher education received at BelGAU, in the opinion of the students themselves, is increasingly approaching these requirements. It is no coincidence that when conducting a comparative analysis of the results of the study conducted by the authors in 2019 with the results of a similar study conducted in 2015, positive dynamic changes are clearly traced in the assessments given by students to the quality of education received at the university and its relevance in the labor market. So, for example, in 2015, 84.9% of the surveyed students of the Belgorod State Agrarian University paid attention to the discrepancy between the obtained, mainly theoretical, knowledge with the requirements of practical professional activity. The lack of skills necessary to solve real life and professional problems in 2015 worried about half (48.1%) of the survey participants. The low level of demand for acquired education in a specific specialty on the labor market was indicated by 40.3% of respondents from among students of BelGAU. Also in 2015, more than a third (34.7%) of disappointed students named the low quality of education received at BelGAU as the reason for dissatisfaction with the choice of the university. In 2019, there were no more than 10% of these [3].

The fact that student public opinion clearly records positive dynamics in improving the quality and strengthening the practical orientation of education received at Belgorod State Agrarian University is not accidental. Belgorod State Agrarian University named after V.Ya. Gorin, focusing

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on improving the quality of training of his graduates, increasing their competitiveness in the regional

labor market, systematically makes significant efforts to introduce social partnership mechanisms into

the educational process and their further development, and the experience gained is of considerable

interest.

Traditionally, social partnership between higher educational institutions and industrial

enterprises is implemented in the form of organizing students' practical training at these enterprises,

their internships, as well as internships for industrial training masters and teachers of professional

disciplines. In addition, the organization of this form of social partnership involves:

Conclusion of agreements on cooperation between the university and enterprises in each area

of training or specialty.

• Attracting representatives of enterprises-employers to participate in the development of

educational programs, calendar plans, schedules.

• Attracting representatives of enterprises-employers to participate in the final state certification

of students.

Organization of round tables on the implementation of social partnership, the organization of

industrial practice and employment of university graduates [14].

Such a traditional form of social partnership is being implemented in the Belgorod State

Agrarian University. However, social partnership appears to be more promising and meeting the

challenges of the modern labor market within the framework of the implementation of dual training

programs, which involve parallel training of a student, both on the basis of an educational institution

and on the basis of a production enterprise.

Dual training programs are developed by educational institutions in conjunction with partner

enterprises and provide for the formation of students' general and professional competencies in the

relevant field of study or specialty based on federal state educational standards. In the course of

practical training at the enterprise, the trainees acquire the practical experience they need for further

employment at this enterprise.

Belgorod State Agrarian University named after V.Ya. Gorin began to carry out a project to

introduce a dual education system into the educational process in 2013. The implementation of this

project is aimed at reducing the existing gap between the theoretical knowledge received by students

today at the university and the real requirements of the labor market for modern specialists, regardless

of the direction of their professional training. The use of the dual training system allows you to link

the theoretical knowledge obtained at the university with the practical skills of its application in the

conditions of real professional activity in production, which will ensure the effective formation of the

required competencies in future specialists at the required level [1].

The introduction of the dual training system at the Belgorod State Agrarian University was as-

sociated with:

With the development of basic professional educational programs in the areas of training

"applied" bachelor's and "applied" master's degrees and their further adjustment towards

increasing their practical component.

With the implementation of new types of practical classes - introductory, technological

practices.

With the expansion of the use of information and digital technologies in the educational

process, including conducting classes in on-line mode, video reports, as well as in the form of

monitoring in the "live time" mode of the implementation of technological processes in a

specific production.

With the expansion of students' participation in practical activities in the chosen profession in

the form of master classes, internships at enterprises, participation in various competitions,

including contests of professional skill, in the form of labor activity by qualified workers in an

additional working profession received at the university.

The logical result of these efforts was the formation of the "University of Applied Sciences"

on the basis of the Belgorod State Agrarian University.

The implementation of dual education requires that the educational organization for the

employment of graduates constantly expands communication links and organizes cooperation with

anchor employers. Thanks to well-coordinated work, the formation of the image of the educational

organization is gradually being built, as well as the search for suitable vacancies for graduates is

taking place. Also, with the students, the analysis of the typical mistakes that they make at the stage

of searching for a suitable job for them is carried out [12].

To bring training closer to production, Belgorod State Agrarian University entered into

agreements with eighty-seven basic partner farms, Confirming the role of scientific and innovative

activities of Belgorod State Agrarian University, it is necessary to note the practical results obtained

are reflected in the concluded contractual obligations of cooperation of the university with enterprises

anchor partners: SEC "Kolkhoz named after Gorin", LLC "GK Agro-Belogorye", LLC "GC

"Prioskolye", CJSC" Krasnoyaruzhskaya grain company ", Agroholding" BEZRK-Belgrankorm", GC

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"EFKO", GC "Avida", GC "Zelenaya Dolina", Branch of PJSC "IDGC of Center" -

"Belgorodenergo", Group of companies "ZhBK -1", etc.

The greatest importance is attached not only to partners who closely interact with the

university, but also to the organization of practical training, which is conducted on the basis of the

university. For practical activities, the educational institution has created special educational

laboratories, training grounds, where students can get working professions at a vocational training

complex. In particular, the enterprises of the agro-industrial complex of the Belgorod region, which

are potential employers for graduates of BelGAU, at their production facilities in accordance with the

concluded agreements with the university within the framework of social partnership, ensured the

creation of thirty-three classrooms equipped with a video conferencing system, as well as four

laboratories for research and production purposes. In addition, thirteen business incubators have been

formed, where model production is located, which allows students to deepen their knowledge and

acquire practical skills in their professional field.

Thus, in the research and production divisions of the Belgorod State Agar University named

after V.Ya. Gorin summarized the best domestic and foreign experience of the agro-industrial

complex, which, in turn, creates tremendous opportunities for scientific and practical activities of

teaching staff and training specialists in the agricultural sector.

4. Summary

The need to improve the staffing of the agro-industrial complex of the Belgorod region is

actualized by the high rates of socio-economic transformations taking place in modern Russian

society in recent years and often taking on a crisis character. Adapting to them, agro-industrial

enterprises are forced to change the tactics and strategy of their functioning, turning to, perhaps, the

key resource for increasing their efficiency - their personnel, which in this situation is already

considered as a team of professionals focused on high-quality and responsible implementation of

their professional and labor activities in the assigned area of work. Accordingly, the most significant

factor determining the effectiveness of professional and labor personnel of modern agro-industrial

enterprises is the level and quality of their professional training.

As the results of the conducted research have shown, the modern education system is not able

to satisfy this need in full. This is hindered by the inconsistency with the requirements of the modern

labor market, the structure of specialties and areas of higher education training, as well as the

objectively conditioned processes of "inflation" of diplomas and a general decline in the quality of

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education and an increase in its isolation from the needs of production. One of the defining conditions that make it possible to change the current situation is the introduction of mechanisms of social partnership between education and business into the system of personnel training for the agro-industrial complex of the region. The most promising basis for creating such a partnership is the implementation of a dual education system.

The implementation of dual education at the Belgorod State Agrarian University made it possible to significantly improve the quality of training specialists for the regional agro-industrial complex, synchronizing educational activities with the constantly changing requirements of the developing agro-industrial production.

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