

# ENGINEERING ACTIVITIES IN MODERN CONDITIONS

## AGRICULTURAL PRODUCTION

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The analysis of industrial and scientific activities of modern engineering, its formation and development; the problems of engineering in solving practical problems in production agriculture.

**Key words:** engineer, engineering activities, agricultural production, engineering education, innovation development, problems of agriculture.

**The aim of research** - to identify the problems of engineering their solutions and trends in agricultural production.

**Materials and methods of research.** Engineering activity - a complex creative work aimed at wealth creation, the development of technology. An engineer is a person capable of invention, the creator of technology. The current meaning and scope of engineering going got tough, historically a long way of development and formation. The emergence of engineering as one of the most important types of work associated with the emergence of manufacturing and machine production. It was based on the technical organization of handicraft production. Since the Renaissance raises the question of the application of science in all areas of technical activities. Becoming engineering profession began in the late eighteenth - early nineteenth century. The first engineering solutions based primarily on empirical knowledge, common sense and very little on scientific data. Knowledge at this time considered as a real force and engineer - as the bearer of knowledge. Technology comes to the situation in which further progress is impossible without saturation of science. Double engineer orientation - on the one hand, the research of natural phenomena, and on the other - for the production or reproduction of their Concept - makes your product to see it differently and see craftsman and scientist, naturalist. Gradually there is a need in the scientific education of engineers. The emergence of higher technical schools determine the

next important stage of engineering. These schools started simultaneously perform research functions that contributed to the development of technical sciences. And in the early twentieth century engineering activities was a complex set of activities for maintenance, improvement and creation of technology in all areas of technical development of humanity.

Modern engineering activities characterized by deep differentiation for different industries and functions. Engineering activity has become widespread type of skilled knowledge workers. The twentieth century was «the century of engineering». Engineering activities being first profession for selected people was widespread type of skilled knowledge workers. Then formed an engineer of new social type, capable of high scientific and technical level to solve definitely more difficult task. Engineering work has to combine both technical direction, practical goals and objectives, a high degree of creativity, regular use of scientific knowledge and provide perspectives and consequences created new technical objects. Therefore, in the first place, arise question of humanization of techniques and technologies that would not bring harm to humanity and nature .

### **Findings**

1. Modern requirements to increase production engineer responsible for individual process steps for the manufacturing process as a whole with mandatory consideration of human factors. When the impact of engineering is global, its decision to cease to be highly professional business.
2. The tendency to separation of two lines of agricultural producers - corporate and individual identifies the main problems of engineering in this field.