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Axiological approach in engineering and technical education

Abstract: The current sociocultural, economic, and political situation in the country shows a shortage of qualified engineering personnel in almost all sectors of the industry. Rethinking the importance of engineering training in the Russian education system requires new philosophical and axiological approaches, including approaches to the education of future engineers.

The purpose of our research is an attempt to comprehend and determine the methodological foundations for updating engineering education.

One of the important aspects of the methodological basis of engineering education is its value and semantic aspect. From this point of view, the consistent implementation of the tasks of patriotic education, starting from a preschool educational institution, seems very important. Knowledge of the history of Russia, the history of Russian science, its discoveries and achievements should form the basis for the education of a future engineer. The ability to dream and set goals that seem unattainable at first glance should stimulate future engineers to constantly creatively search for solutions to the most incredible professional problems. This will provide the technological breakthrough our country needs, which the President spoke about.