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**Solving the problems of engineering education based on digitalization and innovative ideas**

**Abstract:** The article discusses current problems in engineering education and the possibilities of solving them using digital technologies and innovative approaches. The main focus is on analyzing the needs of modern engineering education and identifying key directions for its development in the context of digitalization. We propose a set of measures aimed at integrating digital tools and innovative techniques into the educational process, which makes it possible to increase its efficiency and adaptability to the changing demands of the labor market. Particular attention is paid to the formation of digital competencies among students and teachers, the development of project and research approaches to teaching, as well as the creation of innovative educational platforms and resources. The article contains an analysis of practical examples of the implementation of digital technologies in engineering education and highlights promising directions for its further development.