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**Psychological and pedagogical tools for the formation of professional competencies for the training of highly qualified engineers of the new generation**

**Abstract:** Currently, the state and industries demonstrate the need for the new generation engineers able to find solutions to critical problems of priority industries development in a short period of time and capable to ensure technological sovereignty of the country. The dynamics of industrial development makes the task of young specialists training and their professional competences developing to be of paramount importance.

Aimed at providing engineering staff capable of creating and implementing breakthrough solutions, products and services as well as ensuring sustainability of the national technosphere, universities are forming the new ecosystem of higher engineering education based on the seamless advanced education model. For successful implementation, educators need, first of all, to identify a set of maximally efficient psychological and pedagogical tools to form professional competences of the new generation engineers.