

REVIEW

for the educational program 8D07103 “Materials Science and Engineering”

The doctoral educational program 8D07103 “Materials Science and Engineering” has been evaluated from the standpoint of its relevance to modern scientific research and the demands of high-technology industries that require highly qualified specialists in advanced materials and engineering technologies.

The structure of the program demonstrates a well-balanced integration of fundamental scientific knowledge and advanced research training. The curriculum focuses on the study of modern materials, including nanostructured systems, functional materials, composites, and materials for energy and environmental applications. Such thematic directions correspond to current global priorities in materials science and technological innovation.

A significant advantage of the program is the strong emphasis on independent scientific research. Doctoral students are trained to formulate scientific problems, develop experimental methodologies, and analyze research results using modern analytical and characterization techniques. This approach allows graduates to conduct high-level research and contribute to the development of innovative materials and technologies.

The program also promotes the development of critical thinking, scientific communication skills, and the ability to work in interdisciplinary research environments. Doctoral candidates gain experience in preparing scientific publications, presenting research results at international conferences, and collaborating with academic and industrial partners.

From the employer’s perspective, graduates of this doctoral program possess the competencies necessary for conducting advanced research, developing new materials and technologies, and implementing innovative solutions in industrial and scientific organizations. Their training enables them to effectively participate in research and development projects and contribute to technological progress in the field of materials science.

In conclusion, the doctoral educational program 8D07103 “Materials Science and Engineering” represents a modern and well-structured program that meets international academic standards and the needs of research institutions and industrial enterprises.

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Date: 2026/03/17



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REVIEW
for the educational program 6B07109 “Engineering Physics and Materials Science” (Bachelor’s degree)

The educational program 6B07109 “Engineering Physics and Materials Science” was reviewed from the perspective of industry requirements and the preparation of specialists capable of working in modern scientific and technological sectors.

The program demonstrates a strong interdisciplinary approach that combines fundamental physics with materials science and engineering disciplines. The curriculum provides students with a solid theoretical background and practical skills necessary for understanding the structure, properties, and processing of modern materials.

Particular attention is given to laboratory training and the application of modern analytical methods used in materials research. Students acquire competencies in experimental techniques, data analysis, and the use of advanced characterization methods, which are essential for solving practical engineering problems in industry.

From the employer’s perspective, the program prepares graduates who possess analytical thinking, technical knowledge, and problem-solving abilities required in research laboratories, manufacturing enterprises, and high-technology industries. The integration of theoretical courses with practical training contributes to the development of professional competencies relevant to modern industrial needs.

The educational program also supports the development of communication, teamwork, and project management skills, which are important for successful professional activity in engineering and scientific environments.

Based on the analysis, the bachelor’s educational program 6B07109 “Engineering Physics and Materials Science” corresponds to modern educational and industrial requirements and provides a strong foundation for further professional development or continuation of studies at the master’s and doctoral levels.

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