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Enhancement of Engineering Education through Development of External University Partnership

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We discuss the experience of National Mining University (NMU) in improvement of engineering education related to Earth’s sciences. NMU is extensively developing the linkage with foreign universities, foundations, and domestic industrial partners. The successful example of these activities is Research and Education Center (REC) “Geotechnical systems stability: processes, phenomena, risks” created with the joint support of Civilian Research & Development Foundation of the USA and Ukrainian Ministry of Education and Science in 2007. REC aims to integrate training of qualified specialists and solution of fundamental and applied problems of mineral resources use and environment rehabilitation of mining lands.

The REC goals were achieved, among other things, owing to supporting the research teams headed by leading professors with inclusion of postgraduates and promising students working on new equipment. The REC experience has proved such form as most effective for talented youth to gain experience and new knowledge, motivate in professional activities, further scientific career, and eventually, integrate education and research.