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| Yesenbek Asylbek Sagyntayuly  PhD doctoral student | Department of Scientific Projects and Programs of the South Kazakhstan University. M. Auezov reports that according to the results of the competition for grant funding of young scientists under the project " Zhas Galym " for 2022-2024, project AP15473295 "Development of technology for obtaining an activated sorbent based on fruit canning waste" won a grant.  Priority "Rational use of water resources, flora and fauna, ecology".  The aim of the project is to develop and implement a new technology for the production of an activated sorbent, as well as a thermal activation process for the production of an activated sorbent with a high adsorption capacity.  The novelty and importance of the technology for obtaining an activated sorbent with established properties, a developed porous structure and a greater adsorption capacity for wastewater treatment is determined, first of all, by the creation and development of high-performance projects. |
| Esmagambetov Bulat-Batyr Sauhymovich . Doctor of Technical Sciences, Professor of the Department of ATU | Development of methods for processing radiotelemetric information spacecraft  The idea of research is to design microprocessor-based adaptive information-measuring systems for collecting and processing on-board radio telemetry information of spacecraft , allowing for accelerated processing of large arrays of telemetry data in real time. For this, it is supposed to develop methods for irreversible data compression using nonparametric methods of decision theory. The implementation of the developed methods on a modern microprocessor element base distributed inside a limited onboard space allows solving the extremely urgent problem of minimizing the weight and size characteristics and power consumption of onboard computing systems. |
| Balabekova M.O.  Ph.D. assistant professor | Intelligent control of chemical-technological processes.  Artificial intelligence methods underlie the key technologies of the 21st century, and intelligent systems and technologies are used today in almost all industrial and socially significant areas of human activity. Qualitatively new capabilities of applied intelligent systems (in particular, dynamic intelligent systems) make it possible to significantly increase the efficiency of using computer technology in traditional areas of its application, as well as expand these areas by solving new classes of problems in them that cannot be solved by traditional methods and means.  Currently, the results of research in the field of dynamic intelligent systems are in demand in the field of commercial and industrial applications and software development technology in general, as evidenced by a wide range of applications of dynamic intelligent systems in various fields of science and technology. |