



## SH. YESSENOV CASPIAN STATE UNIVERSITY OF TECHNOLOGY AND ENGINEERING

### Quick Facts

<b>Location (city, state):</b> Aktau city	<b>Website:</b> <a href="https://yu.edu.kz/">https://yu.edu.kz/</a>
<b>Undergraduate student enrollment:</b> 6676	<b>Public/Private:</b> Public
<b>Graduate student enrollment:</b> 557	<b>Type of Institution:</b> Non profit joint stock company

**Institutional Description (limit 250 words):** Yessenov University was found in 1976 as a branch department of Polytechnic University located in Almaty and in 1996, it got the state university status. In 2008, it was renamed for Yessenov Caspian State University of Engineering and Technologies and 2008, its official title was allowed to use Yessenov University. The university has 6 schools and 20 departments offering 57 Bachelor, 36 Master and 7 PhD Degree Program and one research institute with 5 centers, conducting research on Geology, Ecology, Oil-Gas Engineering, Water Desalination, Green Energy and Hydrology, Mangystau region's cultural and archeology heritage, urban Planning along with Social and Humanity sciences research.

In 2023, the university was selected as a host organization for Kazakh-German Intergovernmental Project on Green Hydrogen Industry Development and the German-Kazakh Institute for Sustainable Engineering was created on the university basis in partnership with five leading German Technical Universities (HAW Hamburg, TH Wildau, TU Berlin, Hochschule Mittweida, TU Darmstadt) with purpose of training thousand engineers on 14 joint-academic programs in coming years. First two programs were started this academic year and their students continue to study major subjects at the basis of German Technical Universities.

Yessenov University prioritizes academic and research internationalization, continues to develop joint-degrees and projects, and leads Kazakh universities with number of international students coming from neighboring Caspian Region. Year by year more programs are offered in English, therefore, developing capacity of human capital is the highest priority.

The university has just recently built the new building for Techno parks where Entrepreneurship and Knowledge Transfer for Industries.

### Partnership Information

#### **Possible Academic Areas of Collaboration:**

In the direction of Entrepreneurial Models in Higher Education, we would like to have partnership on developing Incubation and accelerator programs for students and faculty startup projects, training specialist for trekker-mentoring services and conducting Demo and Pitching days. Along with it, the university needs to develop the Patenting and Intellectual Property Services with possible commercialization activities.

In the direction of Research and Commercialization Best Practices, we would like to build research capacity of faculty members and graduate students in quantitative and qualitative research methods and research analysis, to develop academic writing in English and publication skills at peer-reviewed journals. These areas will not be immediately fixed in a short-run; however, building international partnership with US universities will have a long-lasting impact on improving teaching and research quality. The latest development of the A.I. and its impact on higher education changes current perception, unfortunately, not all faculty members are ready for current challenge. With help of international partners, teaching process and resources can be reorganized.

In the direction of Public-Private Partnerships in Research, the university interested in developing University-Industry Collaboration on the basis of international best practices. This effort might require additional training for faculty staff in transferring research results to industry needs and maintaining collaboration.

In the direction of Financial Sustainability Principles and Financial Management, the university tends to implement international best practices in developing Endowment Funds.

As mentioned before, the university has been selected as a host institution for the Green Hydrogen and it is planning to train more PhD students in the field of Renewable Energy (Wind and Solar), Green Hydrogen, Energy Storage and Transport and Water Desalination, to invite international leading scientists for joint research and to build Sustainable Graduate School in a long-run.

**Institutional Strengths:** Yessenov University is located on coastal line of Caspian Sea in the western region of Kazakhstan where the Oil-Gas Industries and Maritime Export Logistics play key roles in Kazakhstan Economy and trains professional with partnership with local companies. At the same time, region has increasing presence of international companies which bring new technologies and expertise for growing industrial sectors and set new challenges for a local job market, in terms of high skills.

**Partnership Interests:** (*e.g., faculty exchanges, student exchange, dual degrees, joint research, distance learning, etc.*)

The need for training the trainers creates a long-term inter-faculty collaboration; therefore, faculty exchanges for the purpose of improving teaching and research experiences. The national grants require to have international leading scientists involved in joint research as well as PhD students are allowed to have co-adviser with following international visit. Joint research and publication are in high demand as local researchers experience absence of Academic English proficiency along with article writing skills. All these skills can be learned but, more efficiently, they can be trained.

The university is interested in having dual-degrees, but it is not easy to implement due to the time-wasting process of getting right approval at all stages of considerations. The implementation of dual-degree can be supported by the Ministry with special scholarship allocation covering all expenses and this support requires partnering institutions' long-term obligation to maintain high partnership. We are open to discuss dual degrees in Education, Business, IT, Oil-Gas and Geology Engineering and Maritime Fields. Students exchange can be practiced for joint-degrees.

Distance learning will be great choice for all academic programs to substitute majoring courses with courses of international partners. The university uses the Coursera platform to offer distance learning and students have already studied many courses of US universities. We are open discuss special resources for distance learning.

**Interest in Partnership:** Why are you interested in partnering with a U.S./Kazakh institution? What do you hope to gain from such a partnership?

We strongly believe that the partnership among the US and Kazakh Institutions will strengthen ties between our countries and brings a long-lasting collaboration among faculty members and new experiences for students. Leading position of US universities in all aspects of Higher Education allows Kazakh Institutions accept new standards of academic excellence and build new tangible and intangible resources. Faculty members will experience spillover of knowledge and expertise in their working fields.

We would like to build multiset institutional partnership with US Institutions which can offer wide-range of collaboration and a long-lasting support.

**Main Partnership Contact: (name, title, email):**

Aigul Dossumbekova  
Head of International Office  
[aigul.dossumbekova@yu.edu.kz](mailto:aigul.dossumbekova@yu.edu.kz)

Yerlan Turgenbayev  
Senior Advisor  
[yerlan.turgenbayev@yu.edu.kz](mailto:yerlan.turgenbayev@yu.edu.kz)