

### Reference

of the applicant for the academic title of associate professor in the scientific direction 21200 - "Other technologies" (Classifier of scientific directions, approved by the order of the Minister of Education and Science of the Republic of Kazakhstan dated August 5, 2021 No.386).

1	First name, surname (if any)	<b>Zhaksylyk Almash</b>
2	Academic degree (Candidate of Sciences, Doctor of Sciences, Doctor of Philosophy (PhD), Doctor of profile) or academic degree of Doctor of Philosophy (PhD), Doctor of profile or degree of Doctor of Philosophy (PhD), Doctor of profile, date of award	Candidate of Technical Sciences. Decision of the Committee for Control in the Sphere of Education and Science of the Ministry of Education and Science of the Republic of Kazakhstan, Protocol № 7 of October 25, 2011, FK № 0007987.
3	Academic title, date of award	-
4	Honorary title, date of award	-
5	Position (date and number of the appointment order)	Associate Professor of the Department of "Standardization, Certification and Metrology" of the Institute of Energy and Mechanical Engineering named after A. Burkitbayev Kazakh National Research Technical University named after K.I. Satpayev (ave. No. 1138 1/s from 31/08/2021) (indicated in the labor book department "Descriptive Geometry and Engineering Graphics)
6	Experience of scientific, scientific and pedagogical activity	Experience of scientific and pedagogical activity after the thesis defense - 13 years, including in the position of associate professor - 3 years (from 31/08/2021 to 18/06/2024).
7	Number of scientific articles after defending a dissertation /obtaining the academic title of associate professor (associate professor)	The total number of published papers after the thesis defense is more than 40, including: - in international peer-reviewed journals included in databases Scopus - 2 articles with a percentile higher than 35; - in publications recommended by the Committee for Quality Assurance in Science and Higher Education of the Ministry of Science and Higher Education of the Republic of Kazakhstan - 11; - in other scientific journals and publications (international conferences, etc.) - 27; - 4 copyright certificates; - monographs, textbooks - 6. Hirsch index h in Scopus - 2. Google scholar - 3.
8	The number of monographs, textbooks, single-handedly written educational (teaching and methodological) manuals published over the past 5 years	- Research of application of geoinformation technologies in open-pit mining. Monograph: KazNITU named after K.I.Satpayev, 7.7 printed sheets, 2024. - Fundamentals of engineering graphics. Textbook -

		KazNITU, 5.9 printed sheets, 2022.
9	Persons who have defended their dissertation under his supervision and have an academic degree (Candidate of Sciences, Doctor of Sciences, Doctor of Philosophy (PhD), Doctor of profile) or an academic degree of Doctor of Philosophy (PhD), Doctor of profile or Doctor of Philosophy (PhD), Doctor of profile	
10	Laureates, prize-winners of republican, international, and foreign competitions, exhibitions, festivals, awards, and Olympiads prepared under his leadership	<p>Republican Olympiad in "Descriptive Geometry and Engineering Graphics":</p> <ol style="list-style-type: none"> <li>1.Karimov N., Dosymbaev M.-2 place (in team competition) 2014.</li> <li>2.Suleymanov E.-3 place (in individual competition) 2014.</li> <li>3.Khametov I., Darmesh A.- 3rd place (in team) 2015.</li> <li>4. Darmesh A.- 3rd place (in individual competition) 2015.</li> <li>5. Fadeeva A., Askarov D. - 3 place in the team competition. 2016.</li> <li>6. Sagadiev R. - 3 place (in individual competition) 2016.</li> </ol> <p>3 place - XIX Republican Scientific Student Conference KazGASA.2019g., 1 place in the International Student Conference KazNITU 2022.</p>
11	Additional information	<p><b>Participation in research work (for the last 5 years)</b></p> <ol style="list-style-type: none"> <li>1.Participation in "Systematisation, analysis and creation of a single consolidated extended base in GIS program" 2018. RPG "Mekensak".</li> <li>2.Head of the initiative SRW. "'Geoinformation and geometric support in modelling of engineering objects". Reg. number 0118PKИ0001. 2018-2020. - Full member of the International Academy of Informatisation, diploma no. 1928. Preparation of EP "Robotics systems" on speciality 5B070400 - Computer Science and Software, 2018. Almaty. Preparation of materials for participation in the rating "Atameken" on EP "Standardisation, certification and metrology". 2nd place for 2023. Awards: Certificate of Gratitude KazNTU named after K.I.Satpayev-2009, Certificate of Honour KazNRTU 2021, Certificate of Gratitude of JSC " IUIT " 2019, Certificate of Honour of JSC "IUIT" for personal contribution to the development of IUIT - 2015, Jubilee Medal IAIN-2019, Medal "Білім беру саласының үздігі" 2021, "Құрмет грамотасы" of the Ministry of Digital Development, Innovation and Aerospace Industry of the Republic of Kazakhstan- 2021, "Алғыс хаты", "Құрмет грамотасы" of the Ministry of Science and Higher Education of the Republic of Kazakhstan 2022.</li> </ol>

Director of the Institute of Energy and mechanical engineering named after A. Burkitbayev, «KazNRTU named after K.I. Satpayev», professor



K. Yelemessov