

**Reference**  
**of the applicant for the academic title of associate professor**  
**in the specialty 20700 Environmental Engineering / 20705 Mining and Mineral Processing**  
**(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>Barmenshinova Madina</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, No. 0002249, by the decision of the Committee for Supervision and Certification in the Field of Education and Science of the Republic of Kazakhstan dated 27.02.2007 (Protocol No. 2) She defended her PhD thesis in the specialty 25.00.13 - Mineral processing on the topic «Improved technology of gravity-flotation beneficiation of rebellious gold-quartz-bearing ledge ores»
3	Academic title, date of award	-
4	Honorary title, date of award	-
5	Position (date and number of the appointment order)	Head of the Department "Metallurgy and Mineral Processing" of the O.A. Baikonurov Mining and Metallurgical Institute of the K.I.Satpayev Kazakh National Research Technical University. (orders No. 648-l/s of 22.05.2017, No. 742-l/s of 31.05.2018, No. 686-l/s of 31.05.2019, No. 1152-l/s of 31.05.2022) (indicated in the workbook).
6	Experience of scientific, scientific and pedagogical activity	Total work experience in the specialty (except for periods of study at the university) – 22 years, including as head of the department – 5 years 7 months
7	Number of scientific articles after defending a dissertation /obtaining the academic title of associate professor (associate professor)	The total number of published works after the defense of the dissertation is 50. Including: - in international peer-reviewed scientific journals included in the Scopus database (CiteScore) - 9; - in publications recommended by the Committee for Quality Assurance in the Field of Science and Higher Education of the Ministry of Science and Higher Education of the Republic of Kazakhstan – 13; - in other scientific journals and publications (international conferences, etc.) – 10. There are also 4 innovative patents of the Republic of Kazakhstan. The Hirsch index: Scopus – 5, Web of Science – 2, Google scholar – 10, RSCI – 2.
8	The number of monographs, textbooks, single-handedly written educational (teaching and methodological) manuals published over the past 5 years	Monograph – 1 (co-authored) with a volume of 15,4 printed sheets, of which 6,2 printed sheets belong to the applicant (there is a certificate of copyright distribution).
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	-
11	Additional information	<ul style="list-style-type: none"> <li>• Laureate of the State Prize for Young Scientists from the Ministry of Education and Science of the Republic of Kazakhstan (2010-2012);</li> <li>• Graduate of the USAID Professional Development program: "Small Business Development through New Technologies and Innovation" ("Small business development through new technologies and innovations") - USA, North Carolina, Raleigh (USA, North Carolina, Raleigh) - April 4 - 30, 2011;</li> <li>• Graduate of the Executive Development Program Universities of the Republic of Kazakhstan (Nazarbayev University Graduate School of Education, Astana) - June 27–November 4, 2016;</li> <li>• Graduate of the seminar "Research University" (International Academy of Management and Technology, Dusseldorf, Germany) July 3-9, 2016;</li> <li>• Since 2018, corresponding member of the National Academy of Mining Sciences of the Republic of Kazakhstan;</li> <li>• scientific supervisor of 2 contractual projects worth more than 33.0 million tenge (customer: Kazakhmys Corporation LLP, 2014 and 2015);</li> <li>• responsible executor of the scientific and technical program 2018/BR05235618 "Modernization of technologies and productions in the mining and mining industries of the Republic of Kazakhstan" (2018-2020, KN MES RK, scientific supervisor Rakishev B.R., 368 665 976.00 tenge), carried out by employees of the NAO " KazNRTU named after K.I. Satpayev" together with KarSTU (Karaganda) and RII (Rudny) (14 projects);</li> <li>• scientific supervisor of the project carried out within the framework of grant financing of young scientists for 2020-2022: AR08052653 "Improvement of technology of flotation of technogenic raw materials with the use of ultramicroheterogenic flotation reagents";</li> <li>• Holder of the Enbek Danky badge of the III degree of the Ministry of Industry and Infrastructure</li> </ul>

	<p>Development of the Republic of Kazakhstan (certificate No. 365, issued No. 227-k dated 29.03.2019);</p> <ul style="list-style-type: none"> <li>• Holder of the Enbek Danky badge of the II degree of the Ministry of Industry and Infrastructure Development of the Republic of Kazakhstan (certificate No. 220, issued No. 647-k dated 11.08.2021);</li> <li>• Holder of the Enbek Danky badge of the first degree of the Ministry of Industry and Infrastructure Development of the Republic of Kazakhstan (certificate No. 137, issued No. 717-k dated 10/20/2022);</li> </ul> <p>• developer of bachelor's-Master's-doctoral degree educational programs: 6B07203 "Metallurgy and mineral processing", 7M07204 "Metallurgy and mineral processing", 7M07226 "Mineral processing", 8D07204 "Metallurgical Engineering", 8D07201 "Mineral processing" (2018-2020);</p> <p>• developer of the Master's degree program for corporate clients within the framework of the International Scientific and Educational Center of the Nuclear Industry at KazNRTU named after K.I. Satpayev: 7M07137-Chemical technology of inorganic substances and materials (specialization "Technology of processing of uranium raw materials and products", 1.5 years). In 2022, the graduation of 8 Masters of Technical Sciences for JSC "NAC "Kazatomprom" took place;</p> <p>• developer of bachelor's degree programs in accordance with the Atlas of New Professions: 6B07212 "Recycling in metallurgy", 6B07213 – Mineral processing (2022).</p>
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**Vice-Rector in Charge of Research  
and International Affairs**



**Shokparov A**