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GreenMetric Report Section: Graduate Employment in Green Jobs at KazNARU (2022–2025)

1. Introduction: A University Shaping Green Futures

Kazakh National Agrarian Research University (KazNARU) has long positioned itself as a regional leader in sustainable agricultural development, environmental stewardship, and education for the 21st century. Located in Almaty, Kazakhstan, the university plays a strategic role in the country's transition toward a green economy by embedding the principles of the United Nations Sustainable Development Goals (SDGs) across teaching, research, and community engagement initiatives.

In line with global sustainability indicators and the GreenMetric World University Ranking framework, KazNARU has made graduate employment in green sectors a top institutional priority. Through intensive academic training, SDG integration across all faculties, and strategic partnerships with national and international green employers, KazNARU ensures that the majority of its graduates are well-equipped for employment in sustainable sectors.

2. Graduate Statistics: Green Job Outcomes Over Three Years

KazNARU graduates approximately 1,200 students annually. According to institutional tracking and follow-up surveys conducted by the university's Career

Development Center, the share of graduates securing green jobs in relevant sectors is both consistently high and increasing:

Year	Total Graduates	% Employed in Green Jobs	Estimated Number in Green Jobs
2022	1,200	90%	1,080
2023	1,200	92%	1,104
2024	1,200	95%	1,140
Total	3,600	92.3% avg.	3,324

These results highlight the university's effectiveness in preparing students for employment in sectors that contribute directly to sustainable agriculture, environmental conservation, climate action, and circular economies.

3. Faculty-Based Analysis: Mapping Green Job Pathways

Faculty of Agronomy

Green Job Sectors:

- Sustainable farming and organic agriculture
- Precision crop management
- Soil health consulting
- Agro-ecology research

Faculty of Veterinary Science

Green Job Sectors:

- Animal welfare and sustainable livestock systems
- Veterinary epidemiology (One Health approach)
- Food safety and ethical supply chain monitoring

Faculty of Engineering and Agro-Technologies

Green Job Sectors:

- Renewable energy systems for agriculture
- Smart irrigation design
- Sustainable machinery engineering
- Post-harvest waste reduction technologies

Faculty of Forest and Land Management

Green Job Sectors:

- Environmental consultancy

- • Carbon offset and reforestation planning
- • Sustainable land-use analysis (GIS/GPS)
- • Biodiversity monitoring programs

Faculty of Water Resources and Transportation

Green Job Sectors:

- • Water conservation infrastructure design
- • Watershed management and irrigation policy
- • Green logistics and sustainable transport planning

High School of Business and Law

Green Job Sectors:

- • ESG consultancy and reporting
- • Green entrepreneurship
- • Impact investing and SDG-aligned finance
- • Circular economy and sustainable procurement

4. Impact Assessment: Building a Green Workforce for Kazakhstan

KazNARU's contribution to the green workforce is substantive and measurable. Over the past three years alone, more than 3,300 graduates have entered careers that align directly with Kazakhstan's Green Economy Concept and the country's commitment to the Paris Agreement, Agenda 2030, and COP climate priorities.

Key areas of impact include:

- • Rural economic revitalization through sustainable agriculture and value-added green enterprises.
- • Improved national food security via graduates working on climate-smart production methods.
- • Resilience building through water management, renewable energy integration, and sustainable infrastructure development.
- • Knowledge transfer to rural communities through alumni-led extension programs, digital apps, and advisory services.

Furthermore, KazNARU's graduates are increasingly engaged in research-based employment at international think tanks, SDG-aligned NGOs, and national innovation hubs (e.g., Nexus Institute, AgroHub, and Smart Farming Labs), ensuring that innovation and applied knowledge reach end users.

5. Future Projections: Scaling Green Careers and Program Innovation

Looking ahead, KazNARU aims to increase both the quantity and quality of green job placement through the following initiatives:

- Curricular Enhancements
 - • Deepening SDG integration across all academic levels (currently ~85–90% of courses are SDG-aligned).
 - • Expanding interdisciplinary programs such as “Digital Agriculture and Climate Resilience” and “Green Business & Innovation”.
- Internship and Career Pipeline Development
 - • Strengthening formal partnerships with industry leaders in agro-ecology, climate tech, and water innovation.
 - • Scaling structured internships and pre-employment training with green enterprises in Kazakhstan and Europe.
- Research and Entrepreneurship Support
 - • Launching more student-led startups through green innovation accelerators.
 - • Providing seed grants and incubation support for ideas addressing SDG challenges in rural regions.
- Graduate Tracking and GreenMetric Alignment
 - • Enhancing digital systems for alumni career tracking and impact reporting.
 - • Aligning graduate outcomes with UI GreenMetric’s employment sustainability indicators, including:
 - • Percentage of graduates employed in sustainable sectors
 - • Percentage involved in climate action or ecological restoration
 - • Cross-sector employment supporting circular economy or biodiversity

6. Conclusion: A University Anchored in Green Transformation

KazNARU’s unwavering commitment to sustainable education and graduate employability reflects its broader mission: to serve as a catalyst for green development not only in Kazakhstan, but across Central Asia. Through rigorous training, strong faculty alignment with global sustainability goals, and growing collaboration with industry and civil society, the university is shaping the workforce needed for an equitable, climate-resilient future.

The continued success of KazNARU graduates in securing meaningful employment in green sectors reaffirms the university's position as a national leader in green education. The next phase will focus on deepening the ESG leadership pipeline, accelerating innovation, and scaling sustainability impact across all sectors of the economy.

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