Al-Farabi
Kazakh National
University

INNOVATION

RESEARCH AND EDUCATION CENTER

«INNOVATION»

Micro-qualification courses · Professional development

Research internships · Engineering and digital technologies

For lecturers, researchers, master's and doctoral students at universities in Kazakhstan and Central Asia

SCIENCE EDUCATION TECHNOLOGY FOR THE FUTURE

Modern knowledge, research and innovation for sustainable regional development





MICRO-QUALIFICATIONS SHORT PRACTICAL COURSES

Practical programmes and in-demand skills



RESEARCH INTERNSHIPS

Access to research infrastructure



ENGINEERING AND DIGITAL TECHNOLOGIES

From research to innovative solutions

EDUCATION

Developing skills for new opportunities

SCIENCE

Research with tangible impact

TECHNOLOGY

Innovation for a sustainable future

A MODERN ENVIRONMENT FOR PROFESSIONAL GROWTH AND RESEARCH

WHAT WE OFFER

Learning, practice and research – in one place



The Innovation Center offers micro-qualification courses, professional development programmes and short research internships in priority areas of engineering, physics and digital science.

01

Micro-qualifications and professional development

For university lecturers and professionals. Short, practice-oriented courses in engineering and digital fields.



02

Research internships

For master's and doctoral students and early-career researchers: experimental work, research methods and data analysis.



KEY AREAS

01 Physics and astrophysics

02 Electronics and instrumentation

03 Materials science and nanotechnology

04 Energy and electrical engineering

05 Telecommunications and automation

06 IT · AI · Data Science

07 Smart Systems · Smart Cities · IoT

08 Robotics and autonomous systems

Programme formats:

On-site · blended · individual · for corporate groups

WHY INNOVATION?

Where knowledge turns into practice



01

Advanced equipment

World-class analytical facilities for physics, materials science, electronics and AI.



02

Practice-oriented approach

Research uses real equipment, current methods and industry-relevant challenges.



03

Expert team

Lecturers and researchers with experience in advanced scientific facilities and international projects.



04

International environment

Joint research with leading international universities and scientific equipment manufacturers.



INFRASTRUCTURE

Advanced scientific equipment and research facilities for experimental and engineering work.



Shimadzu UV-3600

UV-Vis-NIR spectrophotometer for studying optical properties of materials.



Rigaku MiniFlex

X-ray diffractometer for analysing the crystal structure of materials.



NI PXIe

Modular platform for high-speed data acquisition and experiment control.



Agilent / Keysight analyzers

Analysis of signals, spectra and parameters of high-frequency electronic devices.



Universal vacuum systems

Multipurpose vacuum systems for thin films, surfaces and nanostructures in controlled atmospheres.

Physics · electronics · instrumentation · materials · telecommunications · automation · AI / Data Science

Al-Farabi Kazakh National University

INNOVATION

KAZAKHSTAN · CENTRAL ASIA

Open to participants and partners from other universities



We welcome lecturers, researchers, master's and doctoral students, and university teams for training, internships and joint initiatives.

PARTICIPATION FORMATS

01

Individual

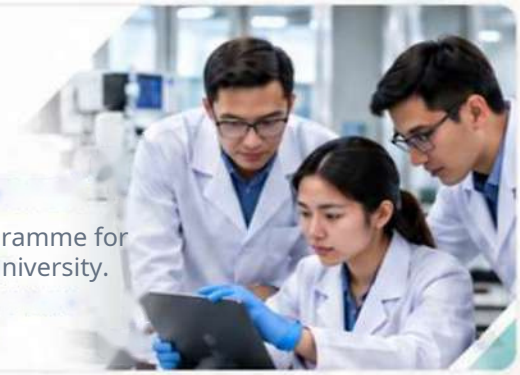
Professional development or an internship in a chosen field.



02

Faculty group

A thematic programme for staff from one university.



03

Department / university

A tailored programme addressing the institution's needs.



04

Master's / doctoral student

A research internship aligned with the project topic.



FROM PROFESSIONAL DEVELOPMENT TO NEW RESEARCH AND EDUCATIONAL PARTNERSHIPS

CONTACTS

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MICRO-QUALIFICATION COURSES

- Robotics
- Applied electronics
- Telecommunications
- Automation
- Data Science