

COOPERATION MEMORANDUM In the field of professional competences

**International Academy of Engineering (IAE),
International Association «Znanie»
With General Consultative Status with the UN,
The International Committee of CIS on Knowledge Promotion
And Adult Education,
International Academic Accreditation and Certification Committee (IAACC)**

Hi-tech are rapidly and cardinally changing the world, involving nations and countries in the age of radical shifts in the global socio-economic paradigm. Global threats are exceeding natural risks and are spawning the struggle for world superiority in the field of science. The trends of recent past for stable economic growth proved to be inconsistent, unstable and nonlinear. The increasing financial tensions and economic deformations in major countries turned out to be beyond the tolerable levels for society. Rigid international confrontation backed by multiple unsolved problems of civilizational nature constantly demonstrate the superiority of force and recklessness over moral ideals. That is why **the relevance of sustainable socio-economic development has significantly increased**, now in the context of actual transitions towards new technologies based on transnational digital platforms.

The countries of CIS, Eurasian Economic Union, Shanghai Cooperation Organization, BRICS and other international economic organizations strive to become part of the technological race and **to take up, just like the republic of China (Taiwan), its well-deserved position in the global economy**. They create their own success strategy based on sustainable development principles, which include a vision of the future and optimal scenarios of its achievement. The main priorities of policy-making and adequate responses to geopolitical challenges are the elegant transitions of economies towards new technological stages, an accelerated development of import independence, energy efficiency and resource preservation, while ensuring catastrophe prevention and radical labour efficiency increase in a new technologically advanced labour market. All these aspects are premises for social, political and cultural consolidation of nations and for a creative development of an individual.

One of the main components of effective social, economic and scientific sustainable development strategies for Eurasia is the adequate provision of current projects with **qualified and mobile available personnel**, including specialists and professionals of the highest qualifications.

Today, Russia and the countries of Eurasian Economic Union have a single and unified system of **qualification growth for specialists**. Professionals with the highest qualifications ended up outside of the attestation and certification framework, which not only doesn't provide them with the status they deserve, but also places them on the same shelf with some other individuals who do not quite live up to their competences.

National systems of professional personnel training, competence evaluation and attestation of specialists of the highest level, awarding them with PhD's and professor statuses **in accordance to the UN-supported ISCED international standard** can significantly simplify the qualification problem.

The Memorandum Participants, who **possess an integrated international status** in the field of adult education, independent competence attestation and professional recognition, unify their efforts in order to minimize threats, as well as to work towards sustainable social development.

Cooperation goals of the Memorandum participants:

- To form new cluster knowledge at every stage – from breakthrough ideas to cutting edge solutions **within the morals and values of sustainable development**, and their constant spreading;
- To assist the **coordination of fundamental and applied scientific research in the field of engineering**, to develop and to bring to life priority research projects, and to commercialize its results on a global scale;
- To promote the paradigm of knowledge in human activity concerned with the **elimination of global civilizational threats and the exploration of space**;
- To assist international scientific cooperation, to integrate talented Russian scientists and engineers into the global community;
- To improve the higher engineering education in Eurasia, to advance professional personnel training systems and adult education qualifications for specialists, as well as to create the optimal conditions for scientific and technological creativity;
- To ensure an objective and unbiased expert evaluation of one's contribution to the development of economics, business, management, culture and education, as well as the protection of one's interests;
- To position the Eurasian zone as the space for partnerships and initiatives aimed at the creation of a balanced adult education system and at the attestation of highly qualified professionals;
- To award highly qualified specialists, recommended by national and international professional organizations, with PhD's and professorships according to ISCED UNESCO standards;
- To expand the system of international recognition of highly qualified and competent specialists in their respective fields;
- To assist the development of civil institutes working towards sustainable social development, knowledge continuity, **career competitiveness and leadership of young scientists and engineers**;
- **To revive enlightenment, charity, philanthropy and volunteering in scientific and creative fields**;
- To form national and international **professional elite**, alongside scientific, cultural, and political elites, who would be able to **manage leadership in all relevant fields of life and social and economic development**

Areas of scientific cooperation between the Memorandum participants

1. The support of applied scientific engineering centers within the Russian Academy of Sciences (RAE) with a follow-up international transfer of Russian Technologies through the **IAE International Scientific Cooperation Coordination Committee**.

2. The transfer of Russian knowledge-intensive technologies through **national applied engineering institutes** within the Memorandum participants' coordination framework.
3. The conduction of promising research regarding the development of new educational competences for continuous qualification improvement, involved in sustainable development programs.
4. The conduction of educational, analytical and expert activities in the **formation of personnel availability** in the context of break-through development.
5. The creation of an international consolidated system of effective human resource security to provide the Memorandum participants with needed personnel based on international competences.
6. To develop a unified network of **analytic and unbiased organizations** in Memorandum priority fields.
7. The popularization of **international universal format of professional attestation for highly qualified specialists** according to ISCED standards and accounting for professional organizations' recommendations.
8. The consolidation of doctorates to a single and unified system of norms and rules with the aim of **providing qualification compatibility and increasing highly qualified human resource mobility** in Eurasia.
9. The creation and development of the "**International Council of Competence Evaluation and Certification of Highly-Qualified Specialists**" within the educational framework of the Memorandum and as a part of the International Committee of CIS on Knowledge Promotion and Adult Education as an **Intergovernmental Educational Platform (IEP)**. IEP is aimed at using digital technologies such as UBER, BLOCKCHAIN, GALS (organization and support of the complete virtual education life cycle), Global Impact Investing and other digital instruments.
10. The development based on the International Council platform, of **individual competence roadmaps**: «from a specialist diploma to a professional doctorate diploma» in fields of engineering, additional education, internships in experimental labs in Russia and other BRICS countries.
11. The formation of a **consolidated database** of IAE and IAACC: «Professional Doctorate and Professorship in breakthrough qualification improvement projects for specialists» from those recommended by the RAE and/or certified by IAACC.
12. The creation of interactive pages on the Memorandum Participants' websites titled «Certification of Highly Qualified Specialists and **Professional Elite Consolidation** in Eurasia».
13. The recommendation of candidates for a professional attestation with a primary expertise of professional assets and documents of applicants on paid basis.
14. The nomination of candidates to the **International Council**, the approval of regional candidates (refer to point 9).
15. The conduction of joint public scientific and applied events dedicated to the problems of improving the human resource policy in the context of economic digitalization and high-tech manufacturing, publishing the reports.
16. The popularization and spreading of scientific knowledge and involvement of talented youth in science.

17. The preparation of documents, hosting project events of this Memorandum with the support of Coordination Committee for International Scientific Cooperation, delegating task groups.

The Memorandum Participants believe that their coordinated efforts will assist the achievement of goals in scientific cooperation, efficient breakthrough research management and cutting-edge scientific knowledge accumulation in international projects dedicated to sustainable social and economic development. Moreover, they will be endowed with highly competent professional innovators. The integration of national certification system into the international one will allow improving professionalism and status of national specialists, as well as preventing the discrimination against those without any scientific titles but still possessing modern knowledge and technologies. It will contribute to the structuration of professional organizations, formation of professional elites, and create the conditions and incentives for both young professionals' career growth and their respective nations. The technical composition of the Memorandum is the responsibility of the Coordination Committee for International Scientific Cooperation of the IAE.

The Cooperation Memorandum in the field of professional competences, continuous specialist education, their accreditation and certification according to the UN standards, awarding them international professional PhD's and professor titles is accepted by the Leaders of involved organizations - Participants, who are signing it for an indefinite time frame with the option of other national and international educational and professional organizations joining.

**International Academy
of Engineering**

President



Boris V. Gusev

**International Association
«Znanie»**

President



Elim M. Malitikov

**IAE International
Scientific Cooperation
Coordination Committee**

Chairman

Anatoly A. Speranskiy

**International Academic
Accreditation and
Certification Committee**

President

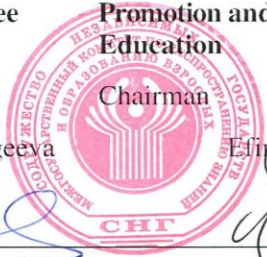
Tatiana K. Sergeeva



**International Committee of
CIS on Knowledge
Promotion and Adult
Education**

Chairman

Elim M. Malitikov



This International Cooperation Memorandum in the field of professional competences is signed in Moscow on May 17th, 2018 at the International Academy of Engineering Council in six identical copies, which have identical power since the moment of signing