



RUSNANO

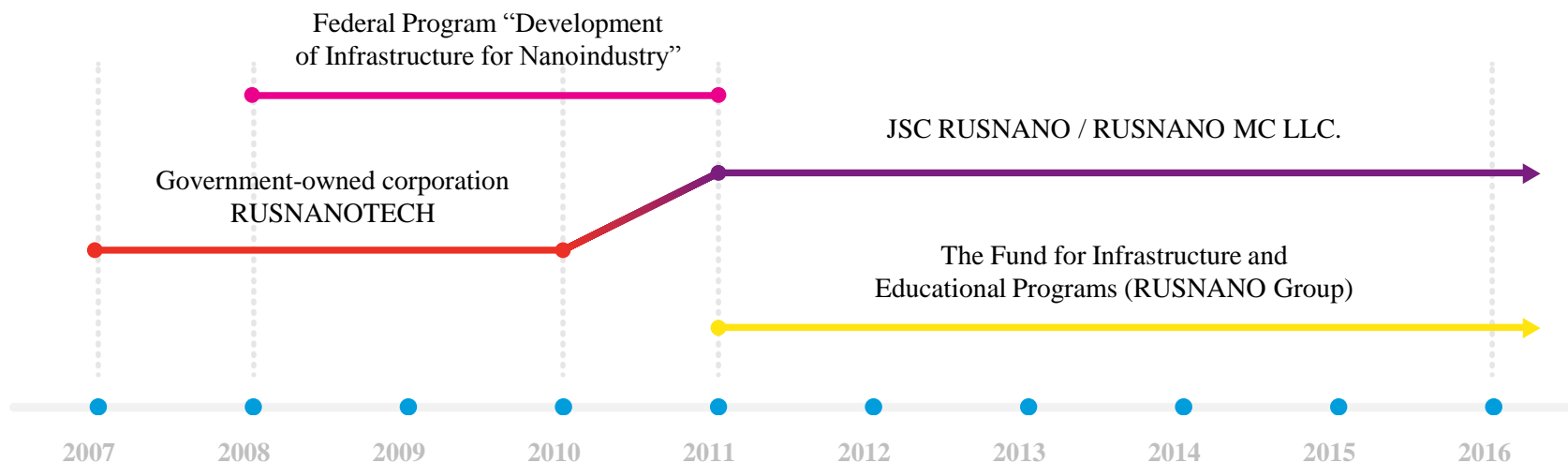
FUND FOR INFRASTRUCTURE AND
EDUCATIONAL PROGRAMS

NANOINDUSTRY. ESTABLISHMENT OF QUALIFICATIONS SYSTEM.

RUSNANO GROUP AND DEVELOPMENT OF RUSSIAN NANOINDUSTRY

RUSNANO implements state policy for the development of the nanoindustry in Russia, acting as a co-investor in nanotechnology projects, which have substantial economic or social potential

en.rusnano.com



RUSNANO. FOSTERING A NEW INDUSTRY



Mission

to support state policy for the development of the nanoindustry by investing in high-tech projects and creating new industries inside Russia



Strategy

to transform scientific developments with commercial potential into full-fledged businesses that will improve the economy of the country



Key investment criteria



Technical feasibility and economic viability



Offer a product directly related to nanotechnology



Locating manufacturing / R&D center in Russia



THE FUND FOR INFRASTRUCTURE AND EDUCATIONAL PROGRAMS

The Fund stimulates nanotechnology infrastructure building to support innovation in the country and primarily focuses its activity in several areas:



Formation of infrastructure for nanotechnology



Nanocenters incubate start-ups and prepare small innovative companies for market entry



Engineering companies develop technology, instruments and product prototypes on contract basis



Market development for nanotechnology products



Standardization and certification of nanotech products and evaluation of their safety



Development of human resources for the nanoindustry



Improvement of the legislative framework for innovation



Popularization of nanotechnology and nano-enabled products

HIGHLY PROFESSIONAL STAFF FOR NANOINDUSTRY: CHALLENGES AND SOLUTIONS

challenges

solutions



Lack of specialists
in Engineering with
appropriate, sufficient
competencies



Lack of professional
training programs
in nanoscience /
nanotechnologies



No clear demands
from local labor market
for staff competencies
in nanotechnologies

HIGHLY PROFESSIONAL STAFF FOR NANOINDUSTRY: CHALLENGES AND SOLUTIONS

challenges

solutions



> 150

professional retraining programs for nanoindustry were designed on request of the Fund for Infrastructure and Educational Programs

> 50 000

students and engineers have been trained and retrained since 2012



e-Learning for Nanotech Industry



Rusnano School League

designed to promote quality reforming of the natural science education in Russian schools



45

professional standards for engineering personnel in nanoindustry



system of **independent qualification assessment** of engineers and technical personnel of the companies and graduates

NATIONAL SYSTEM OF PROFESSIONAL QUALIFICATIONS



SYSTEM OF INDEPENDENT QUALIFICATION ASSESSMENT FOR NANOINDUSTRY

Motivation of stakeholders



identification of competent employees



acceleration of employees' adaptation



shortening of personnel training period



business process optimization



official confirmation of professional qualification



career development, raise of salary



enhancing the value in the labour market
(inclusion in the federal register)



simplification of job placement procedures

SYSTEM OF INDEPENDENT QUALIFICATION ASSESSMENT FOR NANOINDUSTRY

Centers for qualification assessment in nanoindustry:



Plastic processing plant named after «Komsomolskaya Pravda»

Saint-Petersburg

<http://www.kp-plant.ru/?info=180>



Autonomous non-profit organization «Nanocertifica»

Moscow

<http://ck-nano.ru>



Joint-stock company «Molecular Electronics Research Institute»

Moscow

<http://www.cok-niime.ru/>



Closed joint-stock company «Innovation and Production Technopark «Idea»

The Republic of Tatarstan



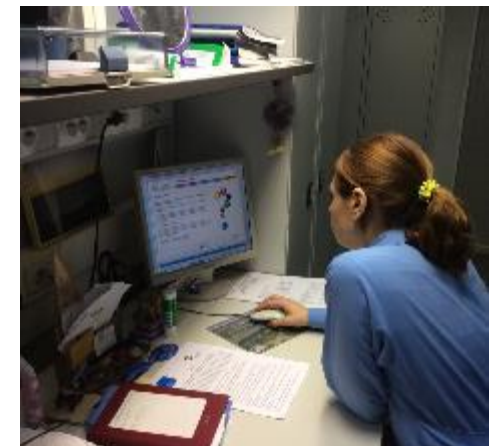
development of assessment materials



electronic system of qualification assessment



> 50 certified applicants





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FUND FOR INFRASTRUCTURE AND
EDUCATIONAL PROGRAMS

Thank you for attention!