

## **Mikhail S. Mukhin**

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Date of birth: 14<sup>th</sup> of July 1986

Place of birth: Leningrad

Marital status: married

### **Operational experience**

12.2016 – to present day

#### **ITMO University**

*Deputy Dean of Faculty of Physics and Technology*

*Head of Nanocenter (Laboratory of Metamaterials)*

Developing and control of education process of Education Center of Physics (2500+ students)

Commercialization of innovation

- the development of a spin-off company, aimed at the commercialization of scientific research and the production of high-tech equipment in the field of nanotechnology.
- organization and development of sales channels
- increasing the sales rate up to 3 times (within 1 year)

Interaction with industrial partners and industry representatives. Negotiation

Coordination and supervision of federal educational projects in the field of "school project activities" ("Sirius", "Kvantorium", "School League of Rusnano", the NTI Olympiad and others).

Construction and organization of the optical laboratory

- coordination and obtaining state "permissive" documentation

- engineering infrastructure design of optical nano-laboratory
- the purchase of scientific and technological equipment, price negotiations
- selection of contractors
- supervising the construction of the optical laboratory and office space (more than 2000 m<sup>2</sup>)

09.2010 – to present day

**RUSNANO Group**

External expert of the Fund for Infrastructure and Educational Programs which responsible in RUSNANO Group for the development of educational and certification activities.

10.2011 – to present day

**St Petersburg Academic University**

*Head of the educational laboratory, associate professor.*

Development and coordination of programs improvement of qualification by order of RUSNANO (in the field of nanoelectronics and nanophotonics).

Creation of distance educational programs. Creation of virtual simulators measuring and growth equipment by order of RUSNANO.

Lecturing. Supervision of masters.

Organizing and conducting student conferences. Participation in the organization of international conferences on solid state physics.

07.2015 – 12.2016

**Mycronic AB (MyData)**

*Technical consultant*

Expert of “Industry 4.0”

Development and implementation of road maps for the modernization of radioelectronic

production factories of Russia, including military industrial complex.

07.2015 – 12.2016

**Dipaul company**

*Head of department of automatization and industrial software*

Development and implementation of projects for the modernization of production facilities of enterprises producing electronic products (printed circuit board).

Development and implementation of projects of manufacturing execution system (MES system)

Project management for warehouse automation and logistics processes

Comprehensive audits of production and logistics business processes of enterprises producing electronic products.

Analysis and optimization of business processes of production companies: procurement, warehouse and logistics, pre-production, production processes, quality control, production management system, etc.

Expert of "Industry 4.0"

05.2013 – 07.2015

**SPA StarLine (ex UltraStar)**

*Development manager*

Design, construction and launch of the highly automated factory by printed board assembly. Control the activities of contractors.

Design and construction of a warehouse for electronic components storage.

Production automation: implementation the management system of industrial processes in production floor and stock (Manufacturing Execution System).

Integration of ERP system with MES system (fusion of SAP and PanaCIM systems).

Management of projects with foreign partners (Panasonic).

Organization of direct procurement of equipment, spare parts and consumables from foreign producers (Koh Young, Senju, TekNek). Audit of electronic component suppliers.

Training organization of production staff. Organization of cooperation with relevant universities and colleges of St. Petersburg.

Planning and implementation of development projects.

07.2012 – 06.2013

**Ioffe Physical Technical Institute of Russian Academy of Sciences**

Centre of Nanoheterostructure Physics, laboratory of Quantum-size Heterostructures.

*Postdoctoral research fellow*

Area of interest: molecular beam epitaxy and fundamental studies of semiconductor nanoheterostructures, optoelectronics, spintronics.

Optical research, the experience of theoretical research, numerical modeling.

Development of LEDs and lasers green and infrared spectral range.

10.2009 – 06.2012

**Ioffe Physical Technical Institute of Russian Academy of Sciences**

Centre of Nanoheterostructure Physics, laboratory of Quantum-size Heterostructures.

*Assistant researcher.*

Area of Interest: basic research of semiconductor materials, spin phenomena in narrow-gap semiconductors.

10.2008 – 09.2011

**St. Petersburg Academic University** — Nanotechnology Research and Education  
Centre of the Russian Academy of Sciences (the Academic University).

*Assistant researcher.*

## **Education**

### ***Postgraduate study***

07.2009 – 05.2012

St. Petersburg Academic University — Nanotechnology Research and Education Centre of the Russian Academy of Sciences (the Academic University)

Department of Physics and Technology of Nanostructures

31.05.2012 – PhD of science (semiconductors).

The title of dissertation work is «Spin-dependent magneto-optical and photovoltaic phenomena in heterostructures based on InAs»

### ***Higher education***

06.2008 – 06.2009

St. Petersburg Academic University

Department of Physics and Technology of Nanostructures

A master's degree with honours

09.2003 – 06.2008

St. Petersburg State Polytechnic University

Physico-Technical Faculty, Department of Nanotechnology

A bachelor's degree with honours

### ***Second higher education***

10.2005 – 02.2009

St. Petersburg State Polytechnic University

Faculty of Economics and Management, Higher school of Management and Finance

A master's degree (unfinished)

### ***School***

09.2001 – 06.2003

Lyceum «Physical-Technical High School»

### ***Additional education***

02.2012 – 09.2012

Stockholm School of Economics Russia

Corporate program «Development of management skills of innovative company in the international context» to LLC «Connector-Optics»

09.2008 – 05.2009

Saint-Petersburg State University

Leader School under Faculty of Psychology

- business administration course;
- leader qualities development training.

09.2007 – 12.2008

English language courses, upper intermediate level

09.2006 – 12.2007

Saint-Petersburg State University of Information Technologies, Mechanics and Optics

Academy of Modern Software and Engineering (ex-Borland Academy)

- java development;
- algorithms data structure;
- practical training.

### ***Language Skills***

English: fluent

Russian: native

## **Personal scholarships and grants**

- Grant of St. Petersburg government for graduate students – 2012, 2011, 2010;
- Grant of Fund for Assistance to Small Innovative Enterprises in the scientific and technical field – 2012, 2010;
- Foundation for support of education and science (Alferov's foundation) – 2011, 2009, 2003;
- Grant for young researchers at the Winter School on the Physics of Semiconductors Ioffe Institute – 2010 (Winner of Winter School);
- The government contract of the Ministry of Education and Science under the direction of the graduate student – 2010;
- Grant of Vladimir Potanin Foundation – 2008, 2007, 2005.