STRENGTHS OF THE INTERNATIONAL MASTER'S PROGRAM

- Profound knowledge and expertise in Materials Science
- Extensive practical training in experimental methods
- Materials' properties forecast
- Advanced materials with particular properties design
- Computer process simulation

CONTACT INFORMATION

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ADVANCED MATERIALS SCIENCE

2024

PROGRAM

Specially tailored for those seeking in-depth understanding of materials' properties and practical expertise in property design to meet specific needs, this program is aimed at building competences in applied experimental methods. You will receive profound training in all modern scientific and applied research issues of Materials Science including:

- ATOMIC STRUCTURE OF SOLID PHASES
- THERMODYNAMICS AND KINETICS IN MATERIALS SCIENCE
- DIFFUSION IN SOLIDS
- CORROSION AND PROTECTION OF THE METALLIC MATERIALS
- MAGNETIC MATERIALS
- AMORPHOUS METALLIC ALLOYS
- MECHANICAL SPECTROSCOPY OF METALLIC MATERIALS
- METHODS OF SURFACES AND INTERFACES INVESTIGATION
- DEFORMATION AND FRACTURE, MECHANICAL PROPERTIES, SPECIAL METALLIC ALLOYS

SKILLS AND CAREER OPPORTUNITIES

The program provides in-depth knowledge and competence for successful career development in scientific and applied research with an extra focus on practical methods of advanced material design, material properties forecast, feasibility of various methods and approaches. Our alumni pursue challenging career opportunities in Aircraft and Automotive industries, Instruments engineering, New Materials' Design in Russia, Europe, USA and other countries.

Throughout the program students are welcome to participate in research projects for our local and international customers: Severstal Inc., Composite JSC, Arcelor Mittal, Toyota Motor Company, Boeing and Ames Government Lab and more others.

FACULTY

Professor Boris Bokstein
PhD & D.Sc in Physics

Merited Scientist of Russian Federation, Member d'Honneur de Société Française de Métallurgie et de Matériaux. Member of European Arcelor Mittal Physical Metallurgy Network. Lecturer at LK University (Debrecen, Hungary), Technion (Haifa, Israel), University Paris-Sud (France), INPL (Nancy, France), RWTH (Aachen, Germany).

Professor Alexey Rodin
PhD in Physics

The Head of the program, Research interests: diffusion in solids, surface and interfaces, grain boundaries, thermodynamics and kinetics in solids, wetting.

Professor Dmitry Podgorny
PhD in Physics and Mathematics

Deputy Head of Material Science, Semiconductors and Dielectrics Department. Research interests: spectroscopic analysis, materials science of semiconductors and dielectrics.

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