STRENGTHS OF THE INTERNATIONAL MASTER'S PROGRAM

- Profound knowledge and expertise in Metallic Materials structure and properties
- Extensive training in practical research and problem solving
- New materials and technology development
- Modern software tools for metals and alloys processes
- Forecasting properties and structure

CONTACT INFORMATION

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ADVANCED METALLIC MATERIALS AND ENGINEERING

2024

PROGRAM

The program is focused on practical competences for further career development in applied research and engineering. It provides a unique opportunity for meaningful research and achievements along with academic training, supervised by our leading scientists. Profound training in all modern scientific and applied issues of Metallic Materials includes:

- METALLIC MATERIALS: STRUCTURE, PROPERTIES AND APPLICATION
- THERMODYNAMIC COMPUTATION AND ANALYSIS OF PHASE DIAGRAMS OF MULTICOMPONENT SYSTEMS
- MODELLING AND OPTIMIZATION IN PHYSICAL METALLURGY
- DEVELOPMENT OF METALLIC MATERIALS
- THERMAL AND THERMOMECHANICAL TREATMENT OF SPECIAL STEELS AND ALLOYS
- THERMODYNAMICS AND KINETICS IN MATERIALS SCIENCE
- MODERN EQUIPMENT AND TECHNIQUES FOR INVESTIGATION OF STRUC TURE AND PROPERTIES OF METALLIC ALLOYS
- DIFFUSION IN SOLIDS
- MECHANICAL SPECTROSCOPY OF METALLIC MATERIALS
  AMORPHOUS METALLIC ALLOYS
  CORROSION AND PROTECTION OF THE METALLIC MATERIALS
  ADVANCED TECHNOLOGIES OF THE METALLIC MATERIALS PRODUCTION

SKILLS AND CAREER OPPORTUNITIES

The Department's alumni pursue successful careers in space/aircraft and automotive industries, metallurgy, new materials design in Russia, Europe, USA, China and other countries. Throughout the program students are welcome to participate in research projects for our local and international customers: Russian Aluminum Inc., Ilyushin Aircrafts JSC, Alcoa, European Aeronautic Defense and Space Company (EADS), Audi AG, Volkswagen Group and others. Audi AG, Volkswagen Group and others.

FACULTY

Professor Igor Golovin
PhD & DSc

Ten years experience of working abroad: EPFL Switzerland, TUBS Germany, Cambridge Uni, UIB. International and national grants DGF, DAAD, The Royal Society, UIB, RFBR, RNF. Invited lectures in different countries (Germany, Spain, Italy, Japan, China, Brazil), co-author of seven books and over 200 research papers.

Professor Alexey Solonin
PhD

Department of Physical Metallurgy of Non-ferrous Metals, Coordinator of the program Advanced Metallic Materials and Engineering, the area of scientific interests includes non-ferrous metallurgy, metal composite materials, metallic materials modelling.

Professor Akihisa Inoue
PhD & DSc

World-leading material scientist. Life member of Japan Academy, life foreign member of the US National Academy of Engineering. Other honors include The Japan Academy Prize, James C. McGroody Prize for New Materials, Acta Materialia Gold Medal Award.

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