

START is a Support Action aiming at reinforcing the collaboration among research teams from the EU and Ukraine that are active in the domain of **High Pressure Physics and Technology** and its application spheres in the various thematic areas of FP7/HORIZON2020, with special focus on the field of **Superhard Materials**.

To do so, START will orient its activities in supporting the V.N. Bakul Institute for Superhard Materials (ISM) of the National Academy of Sciences of Ukraine (NASU) to:

- Analyse its research competencies and suggest actions to address the emerging scientific and socio-economic challenges
- Build long-term collaborations with leading EU research teams towards:
 - ...the design and initiation of joint research activities and
 - ...the exchange of scientific knowledge and good practices
- Enhance its capacity towards its participation in EU-funded collaborative research activities



<http://www.start.ism.kiev.ua>

Contract Number: **295003**
Programme: **FP7-Capacities, ERA-WIDE activities**
Project coordinator: **V.N. Bakul Institute for Superhard Materials of the National Academy of Sciences**
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Project start date: 1 November 2011
Duration: 30 months

Coordinator



V.N. Bakul Institute for Superhard Materials
of the National Academy of Sciences
(ISM, Ukraine)

Partners



Pprime Institute: Research and Engineering
in Materials, Mechanics and Energetics of
the National Centre for Scientific Research
(CNRS-PPRIME, France)



Institute of High Pressure Physics of the
Polish Academy of Sciences (UNIPRESS)



International Environment and Quality
Services North Greece, Ltd
(Q-PLAN N.G., Greece)



**BOOSTING EU-UKRAINE
COOPERATION IN THE FIELD OF
SUPERHARD MATERIALS**

01 November 2011 – 30 April 2014

<http://www.start.ism.kiev.ua>



START is supported by the European Union under the
Capacities programme of the 7th Framework Programme for
Research and Development (FP7-Capacities)

START Activities

Develop Research Strategy

- **Analyse ISM's research capacity, i.e.**
 - ... fields of excellence
 - ... main achievements
 - ... research infrastructure
 - ... areas of interest
- **Identify emerging opportunities, i.e.**
 - ... scientific/technological trends
 - ... socio-economic challenges
- **Suggest actions to strengthen ISM's international collaborations**

Support collaborations Twinning activities

- **Promotion campaign**
 - ... to increase the visibility of ISM's research competencies
- **Delegation tours and demonstrations**
 - ... to facilitate direct discussions towards the design of joint R&D activities among ISM and leading EU research teams
- **Scientific seminars**
 - ... to enable knowledge transfer
- **Research internships**
 - ... to carry out joint R&D activities among ISM and EU leading research institutes

Stimulate and Inform

- **Info-days / workshops**
 - ... to share insight into EU supported funded collaborative research activities
- **FP7 training activities**
 - ... to enhance the skills and experiences of ISM researchers towards their successful participation in future EU-funded projects
- **Dissemination conference**
 - ... to promote the EU-Ukraine collaboration potential
 - ... to disseminate project outcomes

Review of ISM 'internal environment':

- R&D competencies
- Resources
- Areas of expertise
- Scientific interests

Review of ISM 'external environment':

- International scientific and technological landscape
- EU-Ukraine's research cooperation potential

ISM Research Strategy

EU-funded R&D activities capacity building

- 2-days workshops
- 5-days intensive training courses
- 1-month on-the-job training
- Continue hands-on support

Twinning with international research centres

- Delegation Tours - demonstrations
- Scientific seminars for knowledge transfer
- Research internships
- Joint experiments



BOOSTING EU-UKRAINE COOPERATION IN THE FIELD OF SUPERHARD MATERIALS

Project Identity

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Website: <http://www.start.ism.kiev.ua>

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Project overview

START aims at reinforcing the collaboration among research teams from the EU and Ukraine that are active in the domain of **High Pressure Physics and Technology** and its application areas in the various thematic areas of FP7/HORIZON2020, with special focus on the field of Superhard Materials. To do so, START will orient its activities in supporting the V.N. Bakul Institute for Superhard Materials (ISM) of the National Academy of Sciences of Ukraine (NASU) to increase its participation in EU-funded collaborative research activities and design joint R&D activities with EU leaders in the appropriate fields.

Main objectives

A wide range of activities will be implemented:

- ✓ Development of the Institute's medium-to-long term "Research Strategy" by assessing the research competencies and networking level of ISM, as well as the existing international collaboration framework between EU and Ukraine.
- ✓ Designing and organizing a number of well focused "FP7 training activities" in order to advance the Institute's competitiveness towards its participation in EU funded research activities under FP7 and HORIZON2020.
- ✓ Implementation of a set of twinning with EU research centres activities (networking, exchange of knowledge, best practices and scientific staff, etc) to increase the ISM's visibility among EU leading research actors, agree and set up joint experiments with EU actors and facilitate discussion on scientific developments and industrial application areas in the field of Superhard Materials.



Consortium

1.  V.N. Bakul Institute for Superhard Materials of the National Academy of Sciences (ISM, **Ukraine**)
2.  Pprime Institute: Research and Engineering in Materials, Mechanics and Energetics of the National Centre For Scientific Research (CNRS-PPRIME, **France**)
3.  Institute of High Pressure Physics of the Polish Academy Of Sciences (UNIPRESS, **Poland**)
4.  International Environment and Quality Services North Greece, Ltd (Q-PLAN N.G., **Greece**)