



BULGARIAN ACADEMY OF SCIENCES INSTITUTE OF INFORMATION AND COMMUNICATION TECHNOLOGIES

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APPLY FOR MARIE SKŁODOWSKA-CURIE INDIVIDUAL FELLOWSHIP AT IICT-BAS

The Institute of Information and Communication Technologies (IICT), Bulgarian Academy of Sciences (BAS) is interested to host applicants for Marie Skłodowska-Curie Individual Fellowships (Call H2020-MSCA-IF-2016)

IICT-BAS is the leading Bulgarian research institute in the field of ICT and produces internationally visible R&D results in the areas of Advanced Computing, Language and Semantic Technologies, Optimization and Intelligent Control as well as Signal and Image Processing. IICT-BAS coordinates two national research infrastructures: the National Supercomputing Infrastructure and CLARIN-BG, related to the EU CLARIN infrastructure.

IICT-BAS is an active participant in a number of EC scientific programs: FP5, FP6, FP7, Horizon 2020 as well as in the scientific programs of NATO, Volkswagen Foundation, US National Science Foundation, the National Science Foundation of Switzerland, etc. Recently IICT successfully completed the FP7 Capacity grant AComIn "Advanced Computing for Innovation" (<http://www.iict.bas.bg/acomin>) which was recognized by the European Commission as the most successful Bulgarian project in FP7 (please see <http://iict.bas.bg/acomin/appreciation/AComIn-an-FP7-achievement-Jan-2016.pdf>). The public Deliverables of AComIn contain a representative list of the recent Research and Applied achievements of the institute. In AComIn IICT-BAS purchased the modern SmartLab (<http://iict.bas.bg/acomin/smartLab.html>, a set of complementary high-tech devices). The new Bulgarian supercomputer Avitohol (<http://www.iict.bas.bg/avitohol/>), located in the IICT premises, is operating since several months.

The institute was registered on 1 July 2010 after international evaluation and reorganization of the BAS units. At present it has research staff of 98 computer scientists, mathematicians and engineers, more than 40 PhD students and more than 50 part-time collaborators.

AREAS OF RESEARCH PROPOSED BY IICT FOR DEVELOPMENT OF COLLABORATIVE FUNDING PROPOSALS

IICT-BAS is seeking to develop collaborative funding proposals with experienced and / or post-doctoral researchers and offers opportunities for academic training and specialization under supervision of host professors who are skilled in collaboration with incoming researchers. In the framework of the Marie Skłodowska-Curie Individual Fellowship (IF) Programme, IICT invites applicants in the following areas:

ADVANCED COMPUTING: Numerical methods for partial differential equations; High performance computer architectures and algorithms; Parallel methods and algorithms; Computational linear algebra; Iterative methods for sparse matrices; High performance preconditioning methods and algorithms; Applications in science, engineering and ecology; Computer and supercomputer simulations; Monte Carlo algorithms; Image processing; Metaheuristic methods for optimization problems.

Contact person: Assoc. Prof. Dr. Krassimir GEORGIEV

e-mail: georgiev@parallel.bas.bg

Department of Scientific Computations

Department website: http://parallel.bas.bg/sc/INDEX_NEW.htm

LANGUAGE AND SEMANTIC TECHNOLOGIES: Language Technologies for large scale applications; Innovative models and techniques for language analysis and synthesis; Semantic technologies and services for smart content management; Technologies for tackling dynamic evolution and extraction of meaningful knowledge; Big Data analytics and visualization; Linked Data integration and semantic annotation with Linked Open Data.

Contact person: Prof. DSc Galia ANGELOVA

e-mail: galia@lml.bas.bg

Department of Linguistic Modelling and Knowledge Processing

Department website: <http://www.lml.bas.bg>

ENGINEERING AND INFORMATION SCIENCES: Automation; Electronics; Electrical Engineering; High Speed Processes; High Temperature Processes; Material Science and Tribology – study of Metal Alloys, Composites and Coatings; Computer Systems and Technologies; Mechatronics and Robotics; Material Characterization; Milling and Bricqueting Processes; Transport and Logistics; 3D Computer Aided Design.

Supervisor: Prof. Dr. Dimitar Karastoyanov

e-mail: dkarast@iinf.bas.bg

Department Embedded Intelligent Technologies

Personal website: www.karastoyanov.com/index.php?lang=en

CV: <https://1drv.ms/w/s!AoQw59wqpknq9UUfake8YVACih6u>

Department: www.iict.bas.bg/EIT/index_bg_new.html

DEADLINE FOR CONSIDERING EXPRESSIONS OF INTERESTS BY APPLICANTS FOR MARIE SKŁODOWSKA-CURIE INDIVIDUAL FELLOWSHIP

Candidates are invited to express their interest no later than 15 August 2016 by providing a CV and an outline of no more than 1500 words of the research proposal and why IICT-BAS is best suited to host your work. Please copy the Expression of Interest (EoI) to the institute e-mail iict@bas.bg.