

CALL FOR PROPOSALS FOR BASIC RESEARCH WITHIN INFORMATION AND COMMUNICATION TECHNOLOGY (ICT)

- under the framework of the Danish National Research Foundation International Collaboration with the National Natural Science Foundation of China

The Danish National Research Foundation (DNRF) and the National Natural Science Foundation of China (NSFC) have agreed on developing and strengthening Danish-Chinese scientific collaboration.

Hereby, the DNRF invites researchers from the Danish universities and other institutions conducting basic research to apply for funding of Danish-Chinese information and communication technology research collaborations. The project proposals must be written in unison by the responsible Chinese principal investigator (PI) and the responsible Danish PI. Please note that the PIs are expected to spend a considerable part of their time as leaders of the projects. All proposals will be submitted to international peer review.

The two Foundations will support 1-3 project proposals for a 3 year period with the possibility of extension for up to 3 years. The DNRF will fund the Danish groups and the NSFC will fund the Chinese groups. The DNRF is willing to grant the selected projects 10-15 million DKK each, incl. 44 % overhead.

On January 15th 2010 NSFC will announce the call for proposals in China. Only Chinese researchers that have a NSFC basic grant will be eligible to apply for Chinese funding. The contact person in the NSFC is: Lu Rongkai, Director, Division of Western Europe, Bureau of International Cooperation, NSFC, 83, Shuangqing Road, Haidian District, Beijing 100085, China, lurk@nsfc.gov.cn, Tel: +86 10 62327014.

Objective

The objective is to strengthen the competitiveness of Danish and Chinese research within information and communication technology (ICT) through collaboration.

To this end the two Foundations wish to support basic research that enables the construction, validation and utilization of modern or emerging ICT systems. Such systems are very diverse and often very complex; they range from embedded systems in everyday devices, to new computational paradigms (such as cloud computing) enabled by communication systems approaching fundamental limits. They are e.g. used in critical applications where high efficiency, security, and dependability is required, applications involving several agents, and applications that transmit and analyze large heterogeneous data.

Thus fundamental research is needed in a range of areas, such as high capacity wired and wireless networking, cryptography and complexity theory, algorithms and algorithmic game theory, logic and semantic, verification, quantitative analysis and learning theory, as well research that combines or spans several such fundamental areas.

Applications may thus include project proposals which have a *translational approach* ranging from basic sciences to relevant applications.

Selection Criteria

When selecting which proposals to support, the two Foundations will emphasise (not in any order of priority):

- The scientific quality of the proposal
- The added value of performing joint collaborative research between the research groups involved
- The degree of complementarity between the involved research groups in answering the research questions addressed.

Form and Content of the Proposal

An application form for the proposals can be downloaded from the DNRF website: www.dg.dk. Please be aware that the application form includes further information about the initiative.

The project proposals must be written in English, and the downloaded application form must be electronically submitted by the Danish Principal Investigator to the DNRF as a *PDF* document to dg@dg.dk no later than April 21st 2010. The final decision on which proposals to support will be made by the two foundations in September 2010. The research projects should preferably start January 1st 2011.

For further information please contact Research Adviser Niels Lagergaard Pedersen at nlp@dg.dk, tel.: +45-3318 1957 or Director Thomas Sinkjær at ts@dg.dk, tel.: +45-3318 1950.

Danmarks Grundforskningsfond - Danish National Research Foundation – www.dg.dk
The National Natural Science Foundation of China (NSFC) – www.nsfc.gov.cn