

# WiFiUS – Wireless communication research (Academy of Finland, Tekes and NSF, USA), part of the ICT 2023 programme

Detailed application guidelines, 29 April 2014

## Specification to the Academy's April call for applications (12 Feb 2014)

The Academy of Finland, Tekes, the Finnish Funding Agency for Innovation, and the National Science Foundation (NSF) have decided to support collaboration in the field of wireless communication. The theme of the call covers novel frameworks, architectures, protocols, methodologies and tools for the design and analysis of robust and highly dependable wireless networks, including cognitive radio networks.

General topic areas include:

- spectrum sensing and spectrum sharing
- network security and capacity
- coexistence of legacy and new systems
- network architectures
- heterogeneous network design
- resource allocation
- quality of service
- energy efficiency.

Additional topics of interest include:

- interference management and alignment
- device-to-device communication
- cooperation and coordination methods among wireless clients
- configurable antennas.

Applications must involve both a Finnish partner and a US partner. The partners apply for funding separately from the Academy and NSF. The joint projects to be funded will be part of the virtual institute Wireless Innovation between Finland and US (WiFiUS). Read more at [www.wifi.us](http://www.wifi.us).

## Review of applications

The Academy of Finland, Tekes and NSF will conduct independent and parallel review processes. Based on the results of the reviews, officials at the agencies will discuss recommendations. During this discussion, Academy and NSF officials may share unattributed reviews (i.e. reviews will not include reviewer identities) with one another.

In addition to the normal review principles and criteria, WiFiUS applications will also be evaluated by

- the extent to which the proposed work supports the WiFiUS call theme
- the extent to which the work and collaboration plans describe a unified project between Finnish and US researchers.

## Special guidelines

### *Joint research plan*

The Finnish principal investigators (PIs) taking part in the joint project are expected to coordinate their Academy of Finland applications with their US counterparts' submissions to NSF.

Enter the application title as follows: WiFiUS: followed by the project-specific text, for example: WiFiUS: Project title.

The applications addressed to the Academy and NSF must include *identical* project abstracts, project descriptions, lists of publications, curricula vitae, collaboration and management plans, and lists of personnel. The lists of publications must include references relevant to this project by the Finnish PIs and their US partners. In addition, append to the applications to the Academy the curricula vitae for the PIs and co-PIs applying for funding from the Academy and the curricula vitae for the PIs and co-PIs applying for funding from NSF. For more information, see the Appendix below.

### *Annual researcher meetings*

The researchers to be funded will be expected to attend – and should budget for – annual grantee review meetings for the purpose of sharing research progress with representatives of other projects funded under this call, as well as Academy, Tekes and NSF representatives (and any other persons designated by these agencies). The first such meeting will be held approximately nine months after the funding is granted, and the succeeding meeting will be held twelve months thereafter. For budgetary purposes, applicants should assume that one of these meetings will be held in Finland and one in the US.

### *Acknowledgements*

Researchers who have received funding from the Academy and NSF will be required to include an appropriate acknowledgement of support in reports and/or publications on work performed under this funding. An example of such acknowledgement would be “This material is based on work jointly supported by the Academy of Finland (funding decision no. NNN) and the National Science Foundation (funding decision no. YYY)”.

## Funding period

The Research Council for Natural Sciences and Engineering is prepared to fund a maximum of three projects with a total of 700,000 euros. As a rule, the funding period of the two-year projects starts on 15 November 2014.

## Appendices

See the Appendix below.

## How to apply

The non-negotiable deadline is **1 August 2014 at 16.15**. Draft your application in the [Academy's online services](#). Select *Open calls* > **ICT 2023/WiFiUS, Wireless communication research (Academy, Tekes, NSF)**.

Draft the application so that the Academy's contribution to funding comes to no more than 70% of the estimated total project costs. Read more on our website under [Full cost model](#).

If the Finnish applicant is a consortium, see detailed guidelines on our website under [Consortium application](#). The consortium application will be processed only if the applications of all subprojects have been submitted to the Academy by the deadline. The composition of the consortium cannot be changed after the deadline.

#### **More information**

- Senior Science Adviser Juha Latikka (Natural Sciences and Engineering Research Unit), tel. +358 295 335 058