

Grantholder position in Quantum communication technologies

Tue, 2014-05-13 23:12 - [admin](#) [1] **At:** Institute for the Protection and Security of the Citizen Security Technology Assessment

Deadline: 30 June, 2014

Location

EC JOINT RESEARCH CENTRE Ispra Italy
45° 48' 50.2488" N, 8° 36' 43.4808" E

Position for: CATEGORY 40

The project concerns a study on the present state of quantum communication technologies, and the nature and timing of expected developments, and the preparation of a proposal for the role of the Joint Research Centre in the domain.

Background: Quantum communication technologies, such as polarisation-based optical quantum key distribution and quantum random number generation, are already in use for certain applications. New technologies, currently at very different levels of technical maturity, offer the promise of much wider application.

Tasks: The successful candidate will carry out an extensive study on the current state of quantum communication technologies, defining and investigating future expected developments, in terms of their content and their timing. He or she will assist JRC senior management in defining the JRC role, which could include the establishment of a quantum communication technology test-bed and/or demonstrations of quantum communication technology for specific applications. This will include planning laboratory or field campaigns which might be conducted and the equipment required for them. In the course of this study, EU policy implications will be investigated, both in terms of areas suggested for research and development work, and in any standardisation activity to be pursued, whether at EU or global level.

Qualifications:

A candidate will need a Ph.D. degree in a relevant scientific subject, and a minimum of 15 years' professional work after graduation or 10 years after obtaining a Ph.D. Substantial experience in quantum communication technology research or development and an excellent command of English, both written and spoken, are required. The following skills are also desirable:

- wide understanding of quantum communication technologies and their potential and weaknesses; excellent academic qualifications, including a good record of publications;
- experience in public policy-related scientific evaluation;
- understanding of the development and marketing of innovative technologies, and of their technological assessment;
- experience of standardisation work in leading- edge technological domains;
- and an awareness of the European industrial landscape in the development of quantum communication technologies.

Institute Unit Project: Institute for the Protection and Security of the Citizen Security Technology Assessment, Further information: <http://ipsc.jrc.ec.europa.eu> [2]

Indicative duration: 24 months

Preferred starting date: ASAP

JRC Site: Ispra

Country: Italy

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