

Issue Date: 2021-02-11	CEN-CLC/FGQT	N080
Deadline: n/a.	Supersedes: –	
Status: FOR INFORMATION		

TITLE N080 NEN press release about FGQT
PROJECT FGQT Roadmap
REFERRING TO -
SOURCE Dr. Oskar van Deventer (TNO), Niels Neumann (TNO), Roba van den Brink (Delft Circuits), Adriaan Rol (Orange Quantum Systems)
CONTACT oskar.vandeventer@tno.nl; niels.neumann@tno.nl; Rob.vandenBrink@Delft-Circuits.com; adriaan@orangeqs.com

ABSTRACT

The next page presents a recent press release by NEN, the Dutch National Standards Body (NSB) for CEN-CENELEC. The press release highlights the following.

- Which Dutch parties are contributing to FGQT, and on what subjects
- How Dutch contributions are coordinated in a NEN working group that mirrors FGQT
- Why “quantum engineers” may want to contribute to FGQT
- Why experts from additional quantum-technologies are needed and welcome
- How to contact and join this activity

As a result of this press release and associated lobbying, the Dutch delegation found three more organisations that are now planning to contribute to FGQT (on quantum-computer control electronics, and on quantum communication).

Please feel free to reuse parts of this press release to organize a similar reach-out in your own country with your own NSB.

Annex: NEN press release

Please find the NEN press release here: <https://www.nen.nl/nieuws/ontwikkeling-van-standaarden-voor-quantumtechnologie-van-start/> (English text at bottom of that web page)

Start of development of standards for quantum technology

Several Dutch organizations have been working on standardization around quantum technology since last year. Recently, the quantum-tech start-ups Delft Circuits, Qblox, Orange Quantum Systems and QuantWare, together with research institute TNO (QuTech) submitted three proposals for standardization of quantum computing to the European standardization organization CEN-CENELEC.

The Dutch proposals focus on topics like a software programming interface for a quantum computer in the cloud, and a modular division of quantum computer hardware. This division has been chosen in such a way that it maps to the product portfolio of the startups mentioned. The proposals were accepted and now experts are working on the follow-up: new proposals with further elaboration of functional specifications, interworking and interfacing.

CEN-CENELEC Focus group and NEN working group

CEN-CENELEC has established the [Focus Group on Quantum Technologies \(FGQT\)](#). This group is developing a roadmap for standards on quantum technology, describing what aspects should be standardized and when and where. The Netherlands (TNO/QuTech) chairs the European focus group and Germany (DIN) the secretariat. The Dutch contributions are coordinated in the [NEN Quantum Working Group](#). This NEN group also intends to contribute to the international ISO-IEC Quantum Working Group.

Standard quality measure

Quantum technology is in full development. An ecosystem of companies that focuses on quantum technology has already emerged in the Netherlands. Although we are still at the beginning of a revolutionary development, it is already important that Dutch quantum engineers think about its standardization. Contributing to standardization helps, for example, to demonstrate impact in grant applications and to investors, but also to realize a standard quality measure that can demonstrate the quality of a solution.

Call to quantum engineers

The current experts of the NEN Quantum Working Group work in the field of quantum computing. Because there are also other areas of quantum technology (such as quantum communication, quantum simulation and quantum metrology/-sensors), it is good to expand the working group with quantum engineers from those fields. By first coordinating ideas and submitting detailed proposals on behalf of multiple stakeholders, we have a high success rate and impact on European and global standards, of which we are now at the beginning.

More information

Would you like to know more, would you like to get acquainted or attend a session? Please contact: (telephone international: +31 15 2 690 260)



Inge Piek
| Consultant
015 2 690 200 kid@nen.nl