

EMPIR Work Programme Call Scope – Metrology for Industry (2020)

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The overall strategic aim of the Targeted Programme (TP) “Metrology for Industry” is to develop measurement methods and techniques that are relevant for industrial applications. It is aimed at driving innovation in industrial production and facilitating new or significantly improved products, processes or services through exploiting knowledge in the European metrology institutes. Integral to the TP “Metrology for Industry” are facilitation of the metrological and measurement basis for new industrial technologies. These innovations shall improve competitiveness and economic turnover, and enhance reliability, security and safety.

Documented industrial needs will be of key importance. EURAMET encourages proposals from industry and expects their active participation in projects. In addition to the development of technologies and methods, contributions to standardisation shall be investigated as a potential part of the projects. The factory of the future aims at replacing the inefficiencies of traditional industry with systematically coordinated automation using the Internet of Things (IoT) together with artificial intelligence and other technologies. The industrial adoption of technologies such as the IoT, cloud computing, artificial intelligence and cyber-physical systems is driving many new measurement needs in these areas. EURAMET encourages project proposals for the development of metrological support for the benefit of industry 4.0 processes at the core of the factory of the future.

In view of the achievements in quantum metrology projects funded in previous EMPIR calls, and in view of achievements and opportunities under the Quantum Flagship Initiative, EURAMET encourages project proposals for metrology-based industry support for the development of quantum technology based products in industry. This shall include proposals such as for the development of out-of-the-lab standards and the development of metrological capabilities to characterise products based on quantum technology – the latter in coordinated European-wide approaches. EURAMET wishes to generate benefit for industry whilst exploiting the unique capabilities of its member National Metrology Institutes and Designated Institutes. This TP will enable and promote collaborative research in the most demanding fields of industrial metrology going beyond the state of the art. As with all other TPs under EMPIR, this TP shall strengthen the mutual cooperation of European NMIs, leading to coordinated European metrology infrastructures where appropriate.