Horizon 2020: Nanotechnologies, Advanced Materials and Advanced Manufacturing and Processing

The objective of the “Nanotechnologies, Advanced Materials and Advanced Manufacturing and Processing” Work Programme is the successful mastering, integration and deployment of these enabling technologies by European industry. It is a key factor in strengthening Europe’s productivity and innovation capacity and ensuring Europe has an advanced, sustainable and competitive economy, global leadership in high-tech application sectors and the ability to develop effective and sustainable solutions for societal challenges.

Call 2014

The call themes and indicative budgets are:
- Call for Nanotechnologies, Advanced Materials and Production (230,2 M€)
  - Bridging the gap between nanotechnology research and markets
  - Nanotechnology and Advanced Materials for more effective Healthcare
  - Nanotechnology and Advanced Materials for low-carbon energy technologies and Energy Efficiency
  - Exploiting the cross-sector potential of Nanotechnologies and Advanced materials to drive competitiveness and sustainability
  - Safety of nanotechnology-based applications and support for the development of regulation
- Call for FoF - Factories of the Future (82 M€)
- Call for EeB – Energy-efficient Buildings (49,5 M€)
- Call for SPIRE – Sustainable Process Industries (55,3 M€)
- Call for SILC II – Sustainable Industry Low Carbon II (25 M€)

Call for proposals opens: 11 December 2013
Calls for proposals ends: late March / early April 2014 (still open)

Special conditions

International cooperation in some topics is particularly appropriate; especially under the IMS scheme (Intelligence Manufacturing Systems) in FoF.

Contact Information

Jarmo Raittila, NCP
Tekes, www.tekes.fi
tel./SMS +358 2950 36091
jarmo.raittila@tekes.fi

Kari Keskinen Committee Member
Tekes, www.tekes.fi
tel./SMS +358 2950 55843
kari.keskinen@tekes.fi
Online Sources of Information

- EU Research and Innovation Programmes: [http://www.tekes.eu](http://www.tekes.eu)

**Topic list**

**YEAR 2014:**

**Call for Nanotechnologies, Advanced Materials and Production**

- [NMP 1 - 2014: Open access pilot lines for cost-effective nanocomposites](#)
- [NMP 4 - 2014: High definition printing of multifunctional materials](#)
- [NMP 5 - 2014: Industrial-scale production of nanomaterials for printing applications](#)
- [Nanotechnology and Advanced Materials for more effective Healthcare](#)
- [NMP 8 - 2014: Scale-up of nanopharmaceuticals production](#)
- [NMP 9 - 2014: Networking of SMEs in the nano-biomedical sector](#)
- [NMP 10 - 2014: Biomaterials for the treatment of diabetes mellitus](#)
- [Nanotechnology and Advanced Materials for low-carbon energy technologies and Energy Efficiency](#)
- [NMP 13 - 2014: Storage of energy produced by decentralised sources](#)
- [Exploring the cross-sector potential of Nanotechnologies and Advanced materials to drive competitiveness and sustainability](#)
- [NMP 18 - 2014: Materials solutions for use in the creative industry sector](#)
- [NMP 20 - 2014: Widening materials models](#)
- [NMP 21 - 2014: Materials-based solutions for the protection or preservation of European cultural heritage](#)
- [Safety of nanotechnology-based applications and support for the development of regulation](#)
- [NMP 28 - 2014: Joint EU & MS activity on the next phase of research in support of regulation "NANOREG II"](#)
- [NMP 29 - 2014: Coordination of EU and international efforts in safety of nanotechnology](#)
- [NMP 30 - 2014: Assessment of environmental fate of nanomaterials](#)
- [NMP 33 - 2014: Novel visualisation tools for enhanced nanotechnology awareness](#)
- [NMP 35 - 2014: The Materials "Common House"](#)
- [NMP 36 - 2014: Networking and sharing of best practices in management of new advanced materials through the eco-design of products, eco-innovation, and product life-cycle management](#)
- [NMP 37 - 2014: Business models with new supply chains for sustainable customer-driven small series production](#)
- [NMP 38 - 2014: Facilitating knowledge management, networking and coordination in NMP](#)
- [NMP 39 - 2014: Practical experience and facilitating combined funding for large-scale RDI initiatives](#)
- [NMP 40 - 2014/2015: Presidency events](#)
- [NMP 41 - 2014: Support for NCPs](#)

**Call for FoF - Factories of the Future**

- [FoF 1 - 2014: Process optimisation of manufacturing assets](#)
- [FoF 2 - 2014: Manufacturing processes for complex structures and geometries with efficient use of material](#)
- [FoF 3 - 2014: Global energy and other resources efficiency in manufacturing enterprises](#)
- [FoF 4 - 2014: Developing smart factories that are attractive to workers](#)
- [FoF 5 - 2014: Innovative product-service design using manufacturing intelligence](#)
- [FoF 6 - 2014: Symbiotic human-robot collaborations for safe and dynamic multimodal manufacturing systems](#)
- [FoF 7 - 2014: Support for the enhancement of the impact of FoF PPP projects](#)

**Call for EeB - Energy-efficient Buildings**

- [EeB 1 - 2014: Materials for building envelope](#)
- [EeB 2 - 2014: Adaptable envelopes integrated in building refurbishment projects](#)
- [EeB 3 - 2014: Development of new self-inspection techniques and quality check measures for efficient construction processes](#)
- [EeB 4 - 2014: Support for the enhancement of the impact of EeB PPP projects](#)

**Call for SPIRE - Sustainable Process Industries**

- [SPIRE 1 - 2014: Integrated Process Control](#)
- [SPIRE 2 - 2014: Adaptable industrial processes allowing the use of renewables as flexible feedstock for chemical and energy applications](#)
- [SPIRE 3 - 2014: Improved downstream processing of mixtures in process industries](#)
- [SPIRE 4 - 2014: Methodologies, tools and indicators for cross-sectorial sustainability assessment of energy and resource efficient solutions in the process industry](#)

**Call for SILC II - Sustainable Industry Low Carbon II**

- [SILC II - 2014/2015: Sustainable Industry Low Carbon (SILC) II](#)