

Pillar 2

Session 2.7. Biotechnologies and biomaterials

Heli Kangas

Research team leader, project manager

VTT Technical Research Centre of Finland Ltd



1. Full name, date and place of birth and date of CV

- Kangas, Heli Johanna (female)
- October 1st, 1974, Imatra, Finland
- April 11th, 2018

2. Education and degrees awarded

- D.Sc. (Tech.) in Forest Products Chemistry, Department of Forest Products Technology, Helsinki University of Technology (now Aalto University), Graduation date: December 20, 2007.
- M.Sc. (Eng.) in Forest Products Chemistry, Department of Forest Products Technology, Helsinki University of Technology (now Aalto University), Graduation date: February 8, 2001.

3. Current position

- Research Team Leader, Project Manager, VTT – Technical Research Centre of Finland Ltd (April 2017 –)

Currently acting as Research Team Leader in High Performance Fibre Products team in the Business area Biomass Processing and Products, consisting of 23 experts and technical staff members. Present research interests focus on utilization of cellulose-based materials for various novel applications. Expertise in cellulose nanomaterials, especially in their characterization and environmental, health and safety (EHS) aspects as well as applications.



Project Manager (IPMA C level) and managing customer and jointly funded projects (SA, H2020). Coordinator of H2020 SPIRE project NOVUM - Pilot line based on novel manufacturing technologies for cellulose-based electrical insulation components (2017-2021).

4. Previous Professional Appointments

☐ Senior Scientist (June 2011 - April 2017) and Research Scientist (Jan. 2010- May 2011) at VTT Technical Research Centre of Finland Ltd

☐ Research Engineer (Nov. 2001 - Dec. 2009) and Research Assistant (Nov. 2000 - Oct. 2001), KCL Science and Consulting, Oy Keskuslaboratorio – Centrallaboratorium Ab

5. Expert roles and scientific contribution

- Expert in ISO/TC229/JWG2 Metrology and Characterisation - Nanotechnologies (2016-)
- VTT substitute member in the “Safe application of nanotechnology” contact person network, coordinated by the Ministry of Social Affairs and Health in Finland (2017-2019)
- Tappi Nanotechnology Research Committee Member (2015-)
- 17 peer-reviewed contributions in scientific journals and textbooks, >30 contributions in scientific meetings and workshops.

