

## Appendix B: Technology keywords

The detailed Technology keywords are divided into 11 main sectors (Level 1), 61 sub-sectors (Level 2) and 328 specific branches (Level 3):

1. [001 - Electronics, IT and Telecoms](#)
2. [002 - Industrial manufacturing, material and transport technologies](#)
3. [003 - Other industrial technologies](#)
4. [004 - Energy](#)
5. [005 - Physical and exact sciences](#)
6. [006 - Biological sciences](#)
7. [007 - Agriculture and Marine Resources](#)
8. [008 - Agrofood industry](#)
9. [009 - Measurements and standards](#)
10. [010 - Protecting man and the environment](#)
11. [011 - Social and Economic Concerns](#)

The Technology keywords was updated in Q4 2013. In this version, the obsolete keywords that have been removed from the Merlin database are written in **red**, while newly added keywords are written in **blue**, and keywords that have changed level are written in **green**. You can still use obsolete keywords to search for profiles created before the list was updated, but you will not be able to use them when creating new profiles.

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**Note:** When creating a new profile for a client in Merlin, you must use level 3 keywords in order to provide as much information as possible about the profile. When creating a new event, you can select level 1 or level 2 keywords.

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### 001 - Electronics, IT and Telecoms

#### 1 Electronics, Microelectronics (001001)

- 1.1 Automation, Robotics Control Systems (001001001)
- 1.2 Digital Systems, Digital Representation (001001002)
- 1.3 **Electronic engineering (001001004)**
- 1.4 **Embedded Systems and Real Time Systems (001001005)**
- 1.5 **High Frequency Technology, Microwaves (001001006)**
- 1.6 **Magnetic and Superconductive Materials/Devices (001001007)**
- 1.7 **Microengineering (001001008)**
- 1.8 **Micromachining (001001009)**
- 1.9 **Nanotechnologies related to electronics & microelectronics (001001010)**
- 1.10 **Optical Networks and Systems (001001011)**
- 1.11 **Peripherals Technologies (Mass Data Storage, Display Technologies) related to Electronics and Microelectronics (001001012)**
- 1.12 **Printed Circuits and Integrated Circuits (001001013)**
- 1.13 **Quantum Informatics (001001014)**
- 1.14 **Semiconductors (001001015)**

- 1.15 [Smart Cards and Access Systems \(001001016\)](#)
- 1.16 [Environmental and Biometrics Sensors, Actuators \(001001017\)](#)

## **2 Information Processing, Information System, Workflow Management (001002)**

- 2.1 Advanced Systems Architecture (001002001)
- 2.2 Archivistics/Documentation/Technical Documentation (001002002)
- 2.3 Artificial Intelligence (AI) (001002003)
- 2.4 Computer Games (001002004)
- 2.5 Computer Hardware (001002005)
- 2.6 Computer Software (001002006)
- 2.7 Computer Technology/Graphics, Meta Computing (001002007)
- 2.8 Data Processing/Data Interchange, Middleware (001002008)
- 2.9 Data Protection, Storage Technology, Cryptography, Data Security (001002009)
- 2.10 Databases, Database Management, Data Mining (001002010)
- 2.11 Electronic Commerce, Electronic Payment (001002011)
- 2.12 Imaging, Image Processing, Pattern Recognition (001002012)
- 2.13 Information Technology/Informatics (001002013)
- 2.14 Internet Technologies/Communication (Wireless, Wi-Fi, Bluetooth) (001002014)
- 2.15 Knowledge Management, Process Management (001002015)
- 2.16 Simulation (001002016)
- 2.17 Speech Processing/Technology (001002017)
- 2.18 User Interfaces, Usability (001002018)
- 2.19 Electronic Signature (001002019)
- 2.20 Building Automation Software (001002020)
- 2.21 Remote Control (001002021)
- 2.22 Smart Appliances (001002022)
- 2.23 [Internet of Things \(001002023\)](#)
- 2.24 [Environmental and Biometrics Sensors, Actuators \(001002024\)](#)
- 2.25 [Cloud Technologies \(001002025\)](#)

## **3 IT and Telematics Applications (001003)**

- 3.1 Applications for Health (001003001)
- 3.2 Applications for Tourism (001003002)
- 3.3 Applications for Transport and Logistics (001003003)
- 3.4 ASP Application Service Providing (001003004)
- 3.5 e-Government (001003005)
- 3.6 Environment Management Systems & Documental Management Systems (001003006)
- 3.7 GIS Geographical Information Systems (001003007)
- 3.8 CRM - Customer relationship Management (001003008)
- 3.9 Quality Management System (001003009)
- 3.10 Maintenance Management System (001003010)
- 3.11 Operation Planning and Scheduler System (001003011)
- 3.12 Didactic System (001003012)
- 3.13 ICM – Internet Content Management (001003013)
- 3.14 Analysis Risk Management (001003014)
- 3.15 Work Hygiene and Safety Management(001003015)
- 3.16 [ERP - Electronic Resources Planning \(001003016\)](#)
- 3.17 [Serious Games \(001003017\)](#)

## **4 Multimedia (001004)**

- 4.1 Cultural Heritage (001004001)

- 4.2 E-Learning (001004002)
- 4.3 E-Publishing, Digital Content (001004003)
- 4.4 Human Language Technologies (001004004)
- 4.5 Information Filtering, Semantics, Statistics (001004005)
- 4.6 Visualisation, Virtual Reality (001004006)

## **5 Telecommunications, Networking (001005)**

- 5.1 Audiovisual Equipment and Communication (001005001)
- 5.2 Broadband Technologies (001005002)
- 5.3 Mobile Communications (001005003)
- 5.4 Narrow Band Technologies (001005004)
- 5.5 Network Technology, Network Security (001005005)
- 5.6 Radar (001005006)
- 5.7 Research Networking, GRID (001005007)
- 5.8 Satellite Technology/Systems/Positioning/Communication in GPS – Global Positioning System (001005008)
- 5.9 Signal Processing (001005009)
- 5.10 Hi-Fi (001005010)
- 5.11 Description to Sound and Music Computing (001005011)
- 5.12 Description Image/Video Computing (001005012)
- 5.13 Communications Protocols, Interoperability (001005013)
- 5.14 Residential Gateway (001005014)
- 5.15 VoIP telephony, remote access (001005015)

## **6 Electronic circuits, components and equipment (001006)**

- 6.1 3D printing (001006001)
- 6.2 Electronic engineering (001006002)
- 6.3 Embedded Systems and Real Time Systems (001006003)
- 6.4 High Frequency Technology, Microwaves (001006004)
- 6.5 Magnetic and superconductive materials/devices (001006005)
- 6.6 Nanotechnologies related to electronics & microelectronics (001006006)
- 6.7 Optical Networks and Systems (001006007)
- 6.8 Micro and Nanotechnologies related to Electronics and Microelectronics (001006008)
- 6.9 Peripherals Technologies (Mass Data Storage, Displays) (001006009)
- 6.10 Printed circuits and integrated circuits (001006010)
- 6.11 Quantum Informatics (001006011)
- 6.12 Semiconductors (001006012)
- 6.13 Smart cards and access systems (001006013)

## **002 - Industrial manufacturing, material and transport technologies**

### **1 Design and Modelling/Prototypes (002001)**

- 1.1 3D printing (002001001)

### **2 Industrial Manufacture (002002)**

- 2.1 Cleaning (sandblasting, brushing) (002002001)
- 2.2 Coatings (002002002)
- 2.3 Drying (002002003)
- 2.4 Erosion, Removal (spark erosion, flame cutting, laser/plasma cutting, electrochemical erosion, waterjet cutting) (002002004)
- 2.5 Forming (rolling, forging, pressing, drawing) (002002005)

- 2.6 Hardening, heat treatment (002002006)
- 2.7 Joining techniques (riveting, screw driving, gluing) (002002007)
- 2.8 Jointing (soldering, welding, sticking) (002002008)
- 2.9 Machine Tools (002002009)
- 2.10 Machining (turning, drilling, moulding, milling, planning, cutting) (002002010)
- 2.11 Machining, fine (grinding, lapping) (002002011)
- 2.12 Mixing (powder, etc.), separation (sorting, filtering) (002002012)
- 2.13 Moulding, injection moulding, extrusion, sintering (002002013)
- 2.14 Surface treatment (painting, galvano, polishing, CVD, PVD) (002002014)
- 2.15 Extrusion (002002015)
- 2.16 Microassembly, nanoassembly (002002016)
- 2.17 Microengineering and nanoengineering (002002017)
- 2.18 Micropositioning, nanopositioning (002002018)
- 2.19 Micromachining, nanomachining (002002019)
- 2.20 Moulding, injection moulding, sintering (002002020)
- 3 Process control and logistics (002003)**
  - 3.1 Component integration (002003001)
  - 3.2 Information processing & Systems, Workflow (002003002)
  - 3.3 Manufacturing plants networks (002003003)
  - 3.1 Process automation (002003004)
  - 3.2 Prototypes, trials and pilot schemes (002003005)
  - 3.3 Supply chain (002003006)
- 4 Plant Design and Maintenance (002004)**
- 5 Packaging/Handling (002005)**
  - 5.1 Foil, films (002005001)
  - 5.2 Laminate (002005002)
  - 5.3 Packaging for machines (002005003)
  - 5.4 Packaging for materials (002005004)
  - 5.5 Plastic bags (002005005)
- 6 Construction Technology (002006)**
  - 6.1 Building Materials, Components and Methods (002006001)
  - 6.2 Civil engineering (002006002)
  - 6.3 Construction Equipment (002006003)
  - 6.4 Fire Resistance/Safety (002006004)
  - 6.5 Mechanical Engineering, Hydraulics, Vibration and Acoustic Engineering related to construction technology (002006005)
  - 6.6 Pipeline Technology (002006006)
  - 6.7 Pulp Technology related to construction technology (002006007)
  - 6.8 Sensory/Multisensory Technology, Instrumentation related to construction technology (002006008)
  - 6.9 Simulation, Simulation Engineering (002006009)
  - 6.10 Sound Insulation (002006010)
  - 6.11 Vacuum/High Vacuum Technology (002006011)
  - 6.12 Gas Safety (002006012)
  - 6.13 Security (002006013)
  - 6.14 Construction engineering (design, simulation) (002006014)
  - 6.15 Management of construction process & life (002006015)
  - 6.16 Materials, components and systems for construction (002006016)
  - 6.17 Construction maintenance and monitoring methods & equipment (002006017)
  - 6.18 Construction methods and equipment (002006018)

6.19 [Installations related to construction \(energy, lighting...\)](#) (002006019)

## **7 Materials Technology (002007)**

- 7.1 Adhesives (002007001)
- 7.2 Building materials (002007002)
- 7.3 Ceramic Materials and Powders (002007003)
- 7.4 Colours and varnish (002007004)
- 7.5 Composite materials (002007005)
- 7.6 Fine Chemicals, Dyes and Inks (002007006)
- 7.7 Glass (002007007)
- 7.8 Iron and Steel, Steelworks (002007008)
- 7.9 Materials Handling Technology (solids, fluids, gases) (002007009)
- 7.10 Metals and Alloys (002007010)
- 7.11 Non-ferrous Metals (002007011)
- 7.12 Optical Materials (002007012)
- 7.13 Plastics, Polymers (002007014)
- 7.14 Properties of Materials, Corrosion/Degradation (002007015)
- 7.15 Rubber (002007016)
- 7.16 Stone (002007017)
- 7.17 Advanced Textile Materials (002007018)
- 7.18 Paper technology (002007024)
- 7.19 [Carbon nanotubes](#) (002007025)
- 7.20 [Hybrid materials](#) (002007026)
- 7.21 [Biobased materials](#) (002007027)
- 7.22 [Nanomaterials](#) (002007028)
- 7.23 [Conductive materials](#) (002007029)
- 7.24 [Lightweight materials](#) (002007030)

## **8 Transport Infrastructure (002008)**

- 8.1 Air Transport (002008001)
- 8.2 Intermodal Transport (002008002)
- 8.3 Logistics (002008003)
- 8.4 Railway Transport (002008004)
- 8.5 Road Transport (002008005)
- 8.6 Traffic Engineering/Control Systems (002008006)
- 8.7 Transshipment Systems (002008007)
- 8.8 Water Transport (002008008)

## **9 Transport and Shipping Technologies (002009)**

- 9.1 Design of Vehicles (002009001)
- 9.2 Hybrid and Electric Vehicles (002009002)
- 9.3 Railway Vehicles (002009003)
- 9.4 Road Vehicles (002009004)
- 9.5 Shipbuilding (002009005)
- 9.6 Traction/Propulsion Systems (002009006)
- 9.7 [Switches and wiring](#) (002009007)
- 9.8 [Automotive engineering](#) (002009008)
- 9.9 [Lightweight construction](#) (002009009)
- 9.10 [Automotive electrical and electronics](#) (002009010)
- 9.11 [Navigation and embedded systems](#) (002009011)
- 9.12 [Transmission systems](#) (002009012)

- 9.13 Audio / video (002009013)
- 9.14 Electrical supply system (002009014)
- 9.15 Artificial intelligence applications for cars and transport (002009015)
- 9.16 Security systems (002009016)
- 9.17 Energy supply system (002009017)
- 9.18 Air pollution control for cars and transport (002009018)
- 9.19 Lighting and signaling system (002009019)
- 9.20 Braking system (002009020)
- 9.21 Sensors for cars and transport (002009021)
- 9.22 Powertrain and chassis (002009022)
- 9.23 Ignition system (002009023)
- 9.24 Measurement devices (002009024)
- 9.25 Interior equipment (002009025)
- 9.26 Charging system (002009026)
- 9.27 Body and main parts (002009027)

#### **10 Aerospace Technology (002010)**

- 10.1 Aeronautical technology/Avionics (002010001)
- 10.2 Aircraft (002010002)
- 10.3 Helicopter (002010003)
- 10.4 Satellite Navigation Systems (002010004)
- 10.5 Space Exploration and Technology (002010005)
- 10.6 Guidance and control (002010006)
- 10.7 Propulsion (002010007)
- 10.8 Thermal insulation for space applications (002010008)

#### **11 Traffic, mobility (002011)**

- 11.1 Engineering (002011001)
- 11.2 System and transportation (002011002)
- 11.3 Planning and security (002011003)

### **003 - Other industrial technologies**

#### **1 Other Industrial Technologies (003001)**

- 1.1 Cleaning Technology (003001001)

#### **2 Process Plant Engineering (003002)**

#### **3 Apparatus Engineering (003003)**

#### **4 Chemical Technology and Engineering (003004)**

- 4.1 Agro chemicals (003004001)
- 4.2 Anorganic Substances (003004002)
- 4.3 Colours, dyes related to Chemical Technology and engineering (003004003)
- 4.4 Electrical Engineering and Technology/Electrical Equipment (003004004)
- 4.5 Man made fibres (003004005)
- 4.6 Organic Substances (003004006)
- 4.7 Pharmaceuticals (003004007)
- 4.8 Plastics and Rubber related to Chemical Technology and engineering (003004008)
- 4.9 Soaps, detergents (003004009)
- 4.10 Special chemicals, intermediates (003004010)
- 4.11 Care, Hygiene, Beauty (0030040011)

#### **5 Textiles Technology (003005)**

- 5.1 Component adhesives for strengthening of seam (003005001)

- 5.2 Dry filling related to Textiles Technology (003005002)
- 5.3 Dyeing related to Textiles Technology (003005003)
- 5.4 Finisher related to Textiles Technology (003005004)
- 5.5 Non weaving related to Textiles Technology (003005005)
- 5.6 Solvent based glues for strengthening of edges and seam (003005006)
- 5.7 **Thermoplastic textile fibres (003005007)**
- 5.8 Weaving related to Textiles Technology (003005008)
- 5.9 Woven technical textiles for industrial applications (003005009)
- 5.10 **Textile fibres (003005010)**

## **6 Footwear/Leather Technology (003006)**

- 6.1 Dry filling related to Footwear/Leather Technology (003006001)
- 6.2 Dyes related to Footwear/Leather Technology (003006002)
- 6.3 Tanned leather process related to Footwear/Leather Technology (003006003)

## **7 Sound Engineering/Technology (003007)**

## **8 Mining Technologies (003008)**

## **9 Printing (003009)**

- 9.1 Flexography (003009001)
- 9.2 Printed Reel Material (003009002)

## **10 Household Goods & Appliances (003010)**

# **004 - Energy**

## **1 Energy storage and transport (004001)**

- 1.1 Heat storage (004001001)
- 1.2 Heat transport and supply, district heating (004001002)
- 1.3 Storage of electricity, batteries (004001003)
- 1.4 Transmission of electricity (004001004)
- 1.5 Transport and storage of gas and liquid fuels (004001005)
- 1.6 Transport and storage of hydrogen (004001006)
- 1.7 **Power to gas technology (004001007)**

## **2 Energy production, transmission and conversion (004002)**

- 2.1 **Fuel cell, hydrogen production (004002001)**
- 2.2 **Fuel liquefaction, gasification (004002002)**
- 2.3 **Furnace technology, construction of heating boilers (004002003)**
- 2.4 Generators, electric engines and power converters (004002004)
- 2.5 Heat exchangers (004002005)
- 2.6 **Heat pump, cooling technologies (004002006)**
- 2.7 **Heating, ventilation (004002007)**
- 2.8 **Turbines, fluid machinery, reciprocating engines, combined heat and power (004002008)**
- 2.9 **Combined heat and power (CHP) engines (004002009)**
- 2.10 **Other energy related machinery (004002010)**
- 2.11 **Turbines (004002011)**
- 2.12 **Hydrogen production (004002012)**
- 2.13 **Micro-generation and grid connection (004002013)**
- 2.14 **Heat pump (004002014)**
- 2.15 **Smart grids (004002015)**
- 2.16 **Furnace and boiler technologies (004002016)**
- 2.17 **Compression and liquefaction of gases (004002017)**
- 2.18 **Cooling technologies (004002018)**

2.19 Fuel cells (004002019)

**3 Fossil Energy Sources (004003)**

3.1 Coal and Hydrocarbons (004003001)

3.2 Gaseous fossil fuel (004003002)

3.3 Solid fossil fuel (004003003)

3.4 Liquid fossil fuel (004003004)

3.5 Mining and extraction (004003005)

**4 Nuclear Fission/Nuclear Fusion (004004)**

**5 Renewable Sources of Energy (004005)**

5.1 Gaseous biomass (004005001)

5.2 Geothermal energy (004005002)

5.3 Hydropower (004005003)

5.4 Liquid biomass (004005004)

5.5 Photovoltaics (004005005)

5.6 Solar/Thermal energy (004005006)

5.7 Solid biomass (004005007)

5.8 Unconventional and Alternative Energies (004005008)

5.9 Waste incineration (004005009)

5.10 Wind energy (004005010)

5.11 Waste to energy other (004005011)

5.12 Energy from wastewater (004005012)

5.13 Bio-refineries for energy (004005013)

5.14 Liquid biofuels (004005014)

5.15 Integrated waste-energy processes (004005015)

**6 Rational use of energy (004006)**

6.1 Energy management (004006001)

6.2 Lighting, illumination (004006002)

6.3 Process optimisation, waste heat utilisation (004006003)

6.4 Thermal insulation, energy efficiency in buildings (004006004)

6.5 Low, zero and plus energy rating (004006005)

6.6 Thermal insulation (004006006)

6.7 Lighting, illumination (004006007)

6.1 Energy management (004006008)

6.2 Process optimisation, waste heat utilisation (004006009)

6.3 Heat pipes (004006010)

**7 Other Energy Topics (004007)**

7.1 Combustion, Flames (004007001)

7.2 Fuel Technology (004007002)

7.3 Fuels and engine technologies (004007003)

7.4 Micro- and Nanotechnology related to energy (004007004)

**8 Energy Efficiency (004008)**

**9 Carbon capture and energy (004009)**

**10 Biogas and anaerobic digestion (AD) (004010)**

**005 - Physical and exact sciences**

**1 Astronomy (005001)**

**2 Chemistry (005002)**

2.1 Analytical Chemistry (005002001)

- 2.2 Computational Chemistry and Modelling (005002002)
- 2.3 Inorganic Chemistry (005002003)
- 2.4 Organic Chemistry (005002004)
- 2.5 Petrochemistry, Petroleum Engineering (005002005)
- 3 Earth Sciences (005003)**
  - 3.1 Geology, Geological Engineering, Geotechnics (005003001)
  - 3.2 Oceanography (005003001)
  - 3.3 Tectonics, Seismology (005003001)
- 4 Mathematics, Statistics (005004)**
  - 4.1 Algorithms and Complexity (005004001)
  - 4.2 Mathematical modelling (005004002)
  - 4.3 Statistical Analysis (005004003)
- 5 Meteorology/Climatology (005005)**
  - 5.1 Biosensor (005005001)
  - 5.2 Moisture sensors (005005002)
  - 5.3 Temperature monitoring (005005003)
- 6 Physics (005006)**
  - 6.1 Acoustics (005006001)
  - 6.2 Astrophysics/Cosmology (005006002)
  - 6.3 Laser Technology (005006003)
  - 6.4 Nuclear Physics (005006004)
  - 6.5 Physics of Fluids (005006005)
  - 6.6 Sensors/Multisensor Technology, Instrumentation (005006006)
  - 6.7 Solid state physics (005006007)
  - 6.8 Thermodynamics (005006008)
  - 6.9 Vibration and Acoustic engineering (005006009)
  - 6.10 Optics (005006010)
  - 6.11 Vacuum (005006011)
- 7 Mechanical Engineering (005007)**
  - 7.1 Micro-Mechanics (005007001)
- 8 Hydraulics (005008)**
- 9 Separation Technologies (005009)**
  - 9.1 Filtration and Membrane Processes (005009001)
  - 9.2 Extraction (005009002)
  - 9.3 Adsorption (005009003)
  - 9.4 Distillation (005009004)
  - 9.5 Sublimation (005009005)
  - 9.6 Other Processes (005009006)
- 10 Micro- and Nanotechnology related to physical and exact sciences (005010)**
- 11 Micro- and Nanotechnology (005011)**

## 006 - Biological sciences

- 1 Medicine, Human Health (006001)**
  - 1.1 Biostatistics, Epidemiology (006001001)
  - 1.2 Care and Health Services (006001002)
  - 1.3 Clinical Research, Trials (006001003)
  - 1.4 Cytology, Cancerology, Oncology (006001004)
  - 1.5 Dentistry/Odontology, Stomatology (006001005)

- 1.6 Diagnostics, Diagnosis (006001006)
- 1.7 Diseases (006001007)
- 1.8 Environmental Medicine, Social Medicine, Sports Medicine (006001008)
- 1.9 Gene - DNA Therapy (006001009)
- 1.10 Gerontology and Geriatrics (006001010)
- 1.11 Heart and blood circulation illnesses (006001011)
- 1.12 Electromedical and Medical Equipment (006001012)
- 1.13 Medical Research (006001013)
- 1.14 Medical Technology/Biomedical Engineering (006001014)
- 1.15 Neurology, Brain Research (006001015)
- 1.16 Pharmaceutical Products/Drugs (006001016)
- 1.17 Physiology (006001017)
- 1.18 Surgery (006001018)
- 1.19 Virus, Virology/Antibiotics/Bacteriology (006001019)
- 1.20 Laboratory Equipment (006001020)
- 1.21 Rescue and Emergency Equipment (006001021)
- 1.22 Physiotherapy, Orthopaedic Technology (006001022)
- 1.23 Single Use Products and Consumer Goods (006001023)
- 1.24 Medical Textiles (006001024)
- 1.25 Medical Furniture (006001025)
- 1.26 Medical Biomaterials (006001026)
- 1.27 Stem cell Technologies (006001027)
- 1.28 Human vaccines (006001028)
- 1.29 Emergency medicine (006001029)

## 2 **Biology/Biotechnology (006002)**

- 2.1 Biochemistry/Biophysics (006001001)
- 2.2 Cellular and Molecular Biology (006001002)
- 2.3 Enzymology/Protein Engineering/Fermentation (006001003)
- 2.4 Genetic Engineering (006001004)
- 2.5 In vitro Testing, Trials (006001005)
- 2.6 Microbiology (006001006)
- 2.7 Molecular design (006001007)
- 2.8 Toxicology (006001008)
- 2.9 Bionics (006002009)
- 2.10 Enzyme Technology (006002010)
- 2.11 Synthetic Biology (006002011)
- 2.12 Protein Engineering (006002012)

## 3 **Genome Research (006003)**

- 3.1 Bioinformatics (006003001)
- 3.2 Gene Expression, Proteom Research (006003002)
- 3.3 Population genetics (006003003)

## 4 **Micro- and Nanotechnology related to Biological sciences (006004)**

## 5 **E-Health (006006)**

- 5.1 Health information management (006006001)
- 5.2 Remote diagnostics (006006002)
- 5.3 Safety & systems (006006003)
- 5.4 Sensors & Wireless products (006006004)

## 6 **Industrial Biotechnology (006007)**

- 6.1 Bio- Composites (006007001)
- 6.2 Biobased chemical building blocks (006007002)
- 6.3 Biobased high-performance materials (006007003)
- 6.4 Biobased Materials (006007004)
- 6.5 Biological Nanomaterials (006007005)
- 6.6 Biolubricants (006007006)
- 6.7 Bioplastics (006007007)
- 6.8 Biopolymers (006007008)
- 6.9 Bioprocesses (006007009)
- 6.10 Biotensides (006007010)
- 6.11 Downstream Processing (006007011)
- 6.12 Fermentation (006007012)
- 6.13 Ionic Liquids (006007013)

## 007 - Agriculture and Marine Resources

### 1 Agriculture (007001)

- 1.1 Agriculture Machinery/Technology (007001001)
- 1.2 Animal Production/Husbandry (007001002)
- 1.3 Biocontrol (007001003)
- 1.4 Crop Production (007001004)
- 1.5 Horticulture (007001005)
- 1.6 Pesticides (007001006)
- 1.7 Precision agriculture (007001007)
- 1.8 Seed coating (007001008)
- 1.9 Veterinary Medicine (007001009)

### 2 Sylviculture, Forestry, Forest technology (007002)

- 2.1 Forest technology (007002001)
- 2.2 Paper Technology (007002002)
- 2.3 Pulp Technology (007002003)
- 2.4 Sylviculture, Forestry (007002004)
- 2.5 Wood Products (007002005)

### 3 Resources of the Sea, Fisheries (007003)

- 3.1 Aquaculture (007003001)
- 3.2 Fish/Fisheries/Fishing Technology (007003002)
- 3.3 Marine Science (007003003)
- 3.4 Micro- and Nanotechnology related to agriculture and marine resources (007003004)

## 008 - Agrofood industry

### 1 Technologies for the food industry (008001)

- 1.1 Drink Technology (008001001)
- 1.2 Food Additives/Ingredients/Functional Food (008001002)
- 1.3 Food Packaging/Handling (008001003)
- 1.4 Food Processing (008001004)
- 1.5 Food Technology (008001005)

### 2 Food quality and safety (008002)

- 2.1 Detection and Analysis methods (008002001)
- 2.2 Food Microbiology/Toxicology/Quality Control (008002002)

2.3 Safe production methods (008002003)

2.4 Traceability of food (008002004)

**3 Nutrition and Health (008003)**

**4 Micro- and Nanotechnology related to agrofood (008004)**

## 009 - Measurements and standards

**1 Measurement Tools (009001)**

1.1 Acoustic Technology related to measurements (009001001)

1.2 Analyses/Test Facilities and Methods (009001002)

1.3 Chemical material testing (009001003)

1.4 Electrical Technology related to measurements (009001004)

1.5 Mechanical Technology related to measurements (009001005)

1.6 Optical material testing (009001006)

1.7 Optical Technology related to measurements (009001007)

1.8 Other Non Destructive Testing (009001008)

1.9 Sensor Technology related to measurements (009001009)

1.10 Thermal material testing (009001010)

**2 Amplifier, A/D Transducer (009002)**

**3 Electronic measurement systems (009003)**

**4 Recording Devices (009004)**

**5 Reference Materials (009005)**

**6 Standards (009006)**

6.1 Quality Standards (009006001)

6.2 Technical Standards (009006002)

## 010 - Protecting man and the environment

**1 Safety (010001)**

1.1 Acoustic safety (010001001)

1.2 Assessment of Risk (010001002)

1.3 Fire Safety Technology (010001003)

1.4 Hazardous Materials (010001004)

1.5 Radiation Protection (010001005)

1.6 Protection against intoxication (010001006)

1.7 Assessment of Environmental Risk and Impact (010001007)

**2 Environment (010002)**

2.1 Air Pollution/Treatment (010002001)

2.2 Biodiversity (010002002)

2.3 Ecology (010002003)

2.4 Environmental Engineering/Technology (010002004)

2.5 Measurement and Detection of Pollution (010002005)

2.6 Natural Disasters (010002006)

2.7 Remote sensing technology (010002007)

2.8 Soil Pollution (010002008)

2.9 Water Pollution/Treatment (010002009)

2.10 Biodiversity / Natural Heritage (010002010)

2.11 Noise Pollution (010002011)

2.12 Capture and Storage of CO<sub>2</sub> (010002012)

- 2.13 Climate Change mitigation (010002013)
- 2.14 Soil and Groundwater Pollution (010002014)
- 2.15 Clean Production / Green Technologies (010002015)
- 2.16 Life Cycle Assessment (010002016)
- 2.17 Outdoor Air Pollution/Treatment (010002017)
- 2.18 Indoor Air Pollution/Treatment (010002018)
- 2.19 Remediation of Contaminated Sites (010002019)

**3 Waste Management (010003)**

- 3.1 Biotreatment/Compost/Bioconversion (010003001)
- 3.2 Incineration and Pyrolysis (010003002)
- 3.3 Land and Sea Disposal (010003003)
- 3.4 Recycling, Recovery (010003004)
- 3.5 Radioactive Waste (010003005)
- 3.6 Landfill mining (010003006)
- 3.7 Rare Earths Metals Treatment (010003007)
- 3.8 Waste disinfection / detoxification (010003008)
- 3.9 Waste to Energy /Resource (010003009)

**4 Water Management (010004)**

- 4.1 Desalination (010004001)
- 4.2 Drinking Water (010004002)
- 4.3 Flood Management (010004003)
- 4.4 Hydrology (010004004)
- 4.5 Industrial Water Treatment (010004005)
- 4.6 Marine Environment (010004006)
- 4.7 Municipal Water Treatment (010004007)
- 4.8 Rain Water (010004008)
- 4.9 Sludge Treatment / Disposal (010004009)
- 4.10 Underground infrastructure (010004010)
- 4.11 Wastewater Recycling (010004011)
- 4.12 Water in Buildings (010004012)
- 4.13 Water Resources Management (010004013)

## 011 - Social and Economic Concerns

- 1 **Socio-economic development models, economic aspects (011001)**
- 2 **Education and Training (011002)**
- 3 **Information and media, society (011003)**
- 4 **Technology, Society and Employment (011004)**
- 5 **Infrastructures for social sciences and humanities (011005)**
- 6 **Citizens participation (011006)**
- 7 **Foresight tools (011007)**
- 8 **Sports and Leisure (011008)**
- 9 **Creative services (011009)**
- 10 **Creative products (011010)**