Taxonomy of Technological Areas

ELECTRONICS, IT AND TELECOMMS

Electronics, Microelectronics

Automation, Robotics Control Systems

Digital Systems, Digital Representation

Electronic circuits, components and equipment

Micro and Nanotechnology related to Electronics and Microelectronics

3D printing

Electronic engineering

Embedded Systems and Real Time Systems

High Frequency Technology, Microwaves

Magnetic and superconductor materials/devices

Nanotechnologies related to electronics & microelectronics

Optical Networks and Systems

Peripherals Technologies (Mass Data Storage, Displays)

Printed circuits and integrated circuits

Quantum Informatics

Semiconductors

Smart cards and access systems

Information Processing & Systems, Workflow

Advanced Systems Architecture

Archivistics/Documentation/Technical Documentation

Artificial Intelligence (AI)

Computer Games

Computer Hardware

Computer Software

Computer Technology/Graphics, Meta Computing

Data Processing / Data Interchange, Middleware

Data Protection, Storage, Cryptography, Security

Databases, Database Management, Data Mining

Electronic Commerce, Electronic Payment & Signature

Imaging, Image Processing, Pattern Recognition

Information Technology/Informatics

Internet Technologies/Communication (Wireless, Bluetooth)

Knowledge Management, Process Management

Simulation

Speech Processing/Technology

User Interfaces, Usability

Electronic Signature

Building Automation Software

Remote Control

Smart Appliances

Environmental and Biometrics Sensors, Actuators

Cloud Technologies

Internet of Things

IT and Telematics Applications

Applications for Health

Applications for Tourism

Applications for Transport and Logistics

ASP Application Service Providing

e-Government

Environment Management Systems

GIS Geographical Information Systems

ERP - Electronic Resources Planning

CRM - Customer relationship Management

Quality Management System

Maintenance Management System

Operation Planning and Scheduler System

Didactic System

Serious Games

ICM – Internet Content Management

Analysis Risk Management

Work Hygiene and Safety Management

Multimedia

Cultural Heritage

E-Learning

E-Publishing, Digital Content

Human Language Technologies

Information Filtering, Semantics, Statistics

Visualisation, Virtual Reality

Telecommunications, Networking

Audiovisual Equipment and Communication

Broadband Technologies

Mobile Communications

Narrow Band Technologies

Network Technology, Network Security

Radar

Research Networking, GRID

Satellite Technology/Positioning/Communication in GPS

Signal Processing

Hi-Fi

Description to Sound and Music Computing

Description Image/Video Computing

Communications Protocols, Interoperability

Residential Gateway

VoIP telephony, remote access

INDUSTRIAL MANUFACTURING, MATERIAL AND TRANSPORT

Design and Modelling / Prototypes

3D printing

Industrial Manufacture

Cleaning (sandblasting, brushing)

Coatings

Drying

Erosion, Removal (spark erosion, flame cutting, laser, ..)

Forming (rolling, forging, pressing, drawing)

Hardening, heat treatment

Joining techniques (riveting, screw driving, gluing)

Jointing (soldering, welding, sticking)

Machine Tools

Machining (turning, drilling, moulding, planing, cutting)

Machining, fine (grinding, lapping)

Mixing (powder, etc.), separation (sorting, filtering)

Moulding, injection moulding, sintering

Extrusion

Surface treatment (painting, galvano, polishing, CVD, ..)

Microengineering and nanoengineering

Micromachining, nanomachining

Microassembly, nanoassembly

Micropositioning, nanopositioning

Process control and logistics

Process automation

Manufacturing plants networks

Component integration

Supply chain

Information processing & Systems, Workflow

Prototypes, trials and pilot schemes

Plant Design and Maintenance

Packaging / Handling

Foil, fils

Laminate

Packaging for machines

Packaging for materials

Plastic bags

Construction Technology

Materials, components and systems for construction

Construction methods and equipment

Fire Resistance/Safety

Installations related to construction (energy, lighting, ...)

Construction maintenance and monitoring methods & equipment

Construction engineering (design, simulation)

Management of construction process & life

Materials Technology

Adhesives

Building materials

Ceramic Materials and Powders

Colours and varnish

Composite materials

Fine Chemicals, Dyes and Inks

Glass

Iron and Steel, Steelworks

Materials Handling Technology (solids, fluids, gases)

Metals and Alloys

Non-ferrous Metals

Optical Materials

Paper technology

Plastics, Polymers

Properties of Materials, Corrosion/Degradation

Rubber

Stone

Advanced Textile Materials

Lightweight materials

Biobased materials

Carbon nanotubes

Conductive materials

Hybrid materials

Nanomaterials

Transport Infrastructure

Air Transport

Intermodal Transport

Logistics

Railway Transport

Road Transport

Traffic Engineering / Control Systems

Transhipment Systems

Water Transport

Transport and Shipping Technologies

Design of Vehicles

Hybrid and Electric Vehicles

Railway Vehicles

Road Vehicles

Shipbuilding

Traction/Propulsion Systems

Artificial intelligence applications for cars and transport

Navigation and embedded systems

Sensors for cars and transport

Lightweight construction

Air pollution control for cars and transport

Automotive engineering

Body and main parts

Automotive electrical and electronics

Audio / video

Charging system

Electrical supply system

Measurement devices

Ignition system

Lighting and signalling system

Switches and wiring

Security systems

Interior equipment

Powertrain and chassis

Braking system

Energy supply system

Transmission systems

Traffic, mobility

Planning and security

Engineering

System and transportation

Aerospace Technology

Aeronautical technology / Avionics

Aircraft

Helicopter

Satellite Navigation Systems

Space Exploration and Technology

Propulsion

Guidance and control

Thermal insulation for space applications

OTHER INDUSTRIAL TECHNOLOGIES

Other Industrial Technologies

Cleaning Technology

Process Plant Engineering

Apparatus Engineering

Chemical Technology and Engineering

Agro chemicals

Inorganic Substances

Colours, dyes related to Chemical Technology

Electrical Engineering/ Electrical Equipment

Man-made fibres

Organic Substances

Pharmaceutics

Plastics and Rubber related to Chemical Technology

Soaps, detergents

Special chemicals, intermediates

Care, Hygiene, Beauty

Textiles Technology

Component adhesives for strengthening of seam

Dry filling related to Textiles Technology

Dyeing related to Textiles Technology

Finisher related to Textiles Technology

Non weaving related to Textiles Technology

Solvent based glues for strengthening of edges and seam

Textile fibres

Weaving related to Textiles Technology

Woven technical textiles for industrial applications

Footwear / Leather Technology

Dry filling related to Footwear / Leather Technology

Dyes related to Footwear / Leather Technology

Tanned leather process/ Leather Technology

Sound Engineering/Technology Mining Technologies Printing

Flexography

Printed Reel Material

Household Goods & Appliances

ENERGY

Energy storage and transport

Heat storage

Heat transport and supply, district heating

Storage of electricity, batteries

Transmission of electricity

Transport and storage of gas and liquid fuels

Transport and storage of hydrogen

Power to gas technology

Energy production, transmission and conversion

Fuel cells

Hydrogen production

Compression and liquefaction of gases

Furnace and boiler technologies

Generators, electric engines and power converters

Heat exchangers

Heat pump

Cooling technologies

Turbines

Combined heat and power (CHP) engines

Micro-generation and grid connection

Other energy related machinery

Smart grids

Fossil Energy Sources

Gaseous fossil fuel

Solid fossil fuel

Liquid fossil fuel

Mining and extraction

Nuclear Fission / Nuclear Fusion

Renewable Sources of Energy

Geothermal energy

Hydropower

Liquid biofuels

Photovoltaics

Solar/Thermal energy

Solid biomass

Waste incineration

Wind energy

Energy from wastewater

Integrated waste-energy processes

Bio-refineries for energy

Waste to energy - other

Biogas and anaerobic digestion (AD)

Energy efficiency

Energy management

Lighting, illumination

Process optimisation, waste heat utilisation

Thermal insulation

Heat pipes

Low, zero and plus energy rating

Other Energy Topics

Combustion, Flames

Fuels and engine technologies

Micro- and Nanotechnology related to energy

Carbon capture and energy

PHYSICAL AND EXACT SCIENCES

Chemistry

Analytical Chemistry

Computational Chemistry and Modelling

Inorganic Chemistry

Organic Chemistry

Petrochemistry, Petroleum Engineering

Meteorology / Climatology

Biosensor

Physics

Vibration and Acoustic engineering

Optics

Vacuum

Separation Technologies

Filtration and Membrane Processes

Extraction

Adsorption

Distillation

Sublimation

Other Processes

Micro- and Nanotechnology

BIOLOGICAL SCIENCES

Medicine, Human Health

Biostatistics, Epidemiology

Clinical Research, Trials

Cytology, Cancerology, Oncology

Dentistry / Odontology, Stomatology

Diagnostics, Diagnosis

Human vaccines

Emergency medicine

Environmental Medicine, Social Medicine, Sports Medicine

Gene - DNA Therapy

Gerontology and Geriatrics

Heart and blood circulation illnesses

Medical Research

Medical Technology / Biomedical Engineering

Neurology, Brain Research

Pharmaceutical Products / Drugs

Physiology

Surgery

Virus, Virology/Antibiotics/Bacteriology

Stem cell Technologies

Physiotherapy, Orthopaedic Technology

Single Use Products and Consumer Goods

Medical Textiles

Medical Furniture

Medical Biomaterials

Biology / Biotechnology

Biochemistry / Biophysics

Cellular and Molecular Biology

Enzyme Technology

Protein Engineering

Genetic Engineering

Synthetic Biology

In vitro Testing, Trials

Microbiology

Molecular design

Toxicology

Bionics

Genome Research

Bioinformatics

Gene Expression, Proteome Research

Population genetics

Micro- and Nanotechnology related to Biological sciences

E-Health

Safety & systems

Sensors & Wireless products

Health information management

Remote diagnostics

Industrial Biotechnology

Biobased Materials

Bioplastics

Biobased chemical building blocks

Biopolymers

Biobased high-performance materials

Biological Nanomaterials

Biolubricants

Biotensides

Ionic Liquids

Bio-Composites

Fermentation

Bioprocesses

Downstream Processing

AGRICULTURE AND MARINE RESOURCES

Agriculture

Agriculture Machinery / Technology

Animal Production / Husbandry

Biocontrol

Crop Production

Horticulture

Pesticides

Precision agriculture

Seed coating

Veterinary Medicine

Micro- and Nanotechnology related to agriculture

Silviculture, Forestry, Forest technology

Forest technology

Paper Technology

Pulp Technology

Silviculture, Forestry

Wood Products

Resources of the Sea, Fisheries

Aquaculture

Fish / Fisheries / Fishing Technology

Marine Science

Micro- and Nanotechnology related to marine resources

AGROFOOD INDUSTRY

Technologies for the food industry

Drink Technology

Food Additives/Ingredients/Functional Food

Food Packaging / Handling

Food Processing

Food Technology

Food quality and safety

Detection and Analysis methods

Food Microbiology / Toxicology / Quality Control

Safe production methods

Traceability of food

Micro- and Nanotechnology related to agrofood

MEASUREMENTS AND STANDARDS

Measurement Tools

Acoustic Technology related to measurements

Analyses / Test Facilities and Methods

Chemical material testing

Electrical Technology related to measurements

Mechanical Technology related to measurements

Optical material testing

Optical Technology related to measurements

Other Non Destructive Testing

Sensor Technology related to measurements

Thermal material testing

Amplifier, A/D Transducer

Electronic measurement systems

Recording Devices Reference Materials Standards

Quality Standards
Technical Standards

PROTECTING MAN AND ENVIRONMENT

Safety

Acoustic safety

Assessment of Environmental Risk and Impact

Fire Safety Technology

Hazardous Materials

Radiation Protection

Protection against intoxication

Environment

Indoor Air Pollution/Treatment

Outdoor Air Pollution/Treatment

Capture and Storage of CO2

Climate Change mitigation

Biodiversity / Natural Heritage

Ecology

Environmental Engineering / Technology

Measurement and Detection of Pollution

Natural Disasters

Remote sensing technology

Soil and Groundwater Pollution

Remediation of Contaminated Sites

Clean Production / Green Technologies

Noise Pollution

Life Cycle Assessment

Waste Management

Biotreatment / Compost / Bioconversion

Incineration and Pyrolysis

Land and Sea Disposal

Recycling, Recovery

Radioactive Waste

Waste disinfection / detoxification

Waste to Energy / Resource

Landfill mining

Rare Earths Metals Treatment

Water Management

Industrial Water Treatment

Municipal Water Treatment

Wastewater Recycling

Drinking Water

Rain Water

Sludge Treatment / Disposal

Desalination

Water Resources Management

Marine Environment

Hydrology

Flood Management

Water in Buildings

Underground infrastructure

OTHER