Project idea/ Field of expertise: Nano-enabled bio-based materials
Nano-pharmaceutical productions

Organisation Name: Selcuk University

Adressed challenge(s)/ PPP(s):

Adressed topic(s) in Work Programme:

DT-NMBP-04-2020;
DT-NMBP-06-2020;
NMBP-38-2020
CE-BIOTEC-09-2020:

Selcuk University

Materials technologies, and Biotechnology units

- ❑ **R&D**
- ❑ **Analysis&Testing**
- ❑ **Collaboration with Industry**

- Nanomaterials &Semiconductor Tech.
- Magnetic NPs (synthesis, patterning, functionalization, surface treat),
- CVD systems / Processing techniques (in the films, fibers, fillers, coatings, etc).
- Smart surfaces, interfaces chemistry
- Biopolymers, bio-based materials
- Sensors development (NPs, QDs including biosensors etc)
- Graphene chemistry & applications (materials, optoelectronics, sensors, flexible electronics,)
- Directed self assembly of nanostructures for CMOS technologies

✓ **Track Recors**

✓ **H2020-MSCA-RISE-NanoFEED** Nanostructured Carriers for Improved Cattle Feed

✓ FP7-**NMP**, Large Area Molecularly Assembled Nanopattern for Devices (LAMAND)

✓ FP7-I**NFRA-2012**, The European Solar Infrastructure for Concentrated Solar Power (EU-SOLARIS)

✓ FP7-**SME-2012**-"Enhanced chitin-based biosorbents for drinking water purification “ChitoClean”

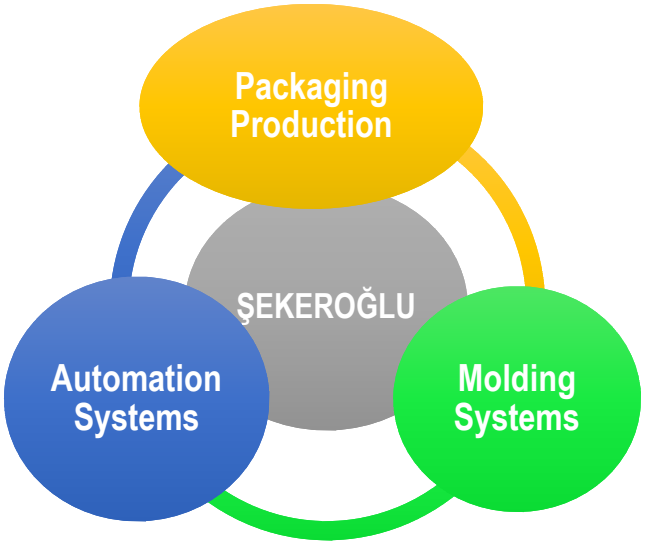
✓ FP7-**SME-2013** “"Ingredients for Food and Beverage industry from a lignocellulosic source (LIGNOFOO

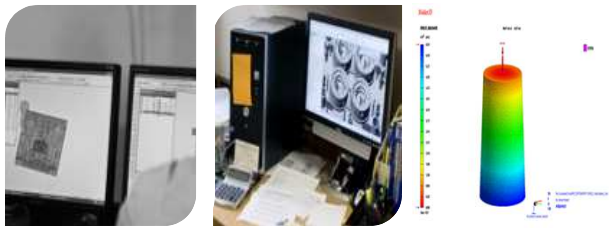
project idea / expertise

DT-NMBP-04-2020: Open Innovation Test Beds for nano-enabled bio-based materials (IA)	Nano-enabled bio-based materials' properties, Processing techniques and optimisation of process parameters, Transformation of bio-based building blocks New, ecofriendly, nano-enabled bio-based materials relevant to various applications, Covering the full scale of new or existing industrial and consumer products	demonstrated in relevant **industrial** environments **SMEs**
DT-NMBP-06-2020: Open Innovation Test Beds for nano-pharmaceuticals production (IA)	Nano-pharmaceutical materials production facilities Characterisation and quality control of nano-pharmaceuticals Developing novel nano-pharmaceuticals	Demonstration of the scalability of the production process **DUAMER**
NMBP-38-2020: Citizens and industrial technologies (CSA)	Enhance public understanding of cutting-edge technologies and their diverse applications; Engage citizens in dialogue and co-creation on priorities, expectations and concerns	Citizen engagement in technologies, usable by industry, procurers (such as cities) and other stakeholders; **KSC**
CE-BIOTEC-09-2020: Upcycling Bio Plastics of food and drinks packaging (RIA)	Expand the potential of current technologies and materials Manufacturing and design of bio-plastics that are recyclable and/or bio-degradable	Upcycling of plastics for food and drinks packaging **SMEs**
NMBP-37-2020: Incentivising newcomers (CSA)	have not been involved in NMBP Horizon 2020 projects so far; the identification should target in particular the best talents from regions so far underrepresented in Horizon 2020 projects	**SMEs,**

COLLABORATION INDUSTRY

❑ Chemical and Plastic (Bio-Plactic)industry





DT-NMBP-04-2020

CE-BIOTEC-09-2020

NMBP-37-2020:

❑ Konya Science Center (KBM)

NMBP-38-2020:

❑ BioTechnology/Health

Natural Products R&D;

Natural Supplements
Turkey's first **healthy living** brand
Nutritional Supplements
Vitamin/Minerals
FDA, EP, GMP Standards

DT-NMBP-06-2020

Consortium (if any)

Known partners / Competence offer			
Name	Type	Country	Role in the project
Partner search			
Profile	Type	**Country**	**Role in the project**
R&D Institute/Universities			Technoloy providers in the fields of:
Large industry			For scale-up/demonstration/joint development in the various sectors
SMEs			Scale up to TRL 7

Join to **consortiums** (or Establish) to **develop proposals** together with **SMEs.**

Contact details

Contact Person	Prof. Dr. Mustafa ERSOZ
Organisation	Selcuk University Faculty of Sciences, Department of Chemistry,
Adress	Konya, Turkey (TR)
Telephone	+90 332 223 0728
E-mail	ersozm@gmail.com mersoz@selcuk.edu.tr