



**HOST OFFERS
FROM THE SILESIAN
UNIVERSITY OF
TECHNOLOGY
FOR THE MARIE
SKŁODOWSKA-
CURIE INDIVIDUAL
FELLOWSHIPS IN
HORIZON 2020**



**Silesian
University
of Technology**



HR EXCELLENCE IN RESEARCH



The Silesian University of Technology (Poland) is searching for **enthusiastic and experienced researchers of any nationality** interested in submitting a joint application for the

Marie Skłodowska-Curie Individual Fellowships

More information can be found at:

H2020-MSCA-IF-2019

ABOUT THE UNIVERSITY

The Silesian University of Technology (SUT), is the oldest technical university in the region and one of the most prestigious in Poland. It was established in 1945 as a scientific and educational facility for Upper Silesia, the most industrialized area in Poland, and one of the most industrialized in Europe. For over 70 years of its history, it has always been a public institution, playing a cultural and opinion forming role in the region.



15 educational units of the University – 13 faculties, one college and a scientific-didactic centre – currently offer almost 60 study programmes and about 200 specializations, including the whole spectrum of engineering studies. Aside from technical programmes, candidates may also study administration, business analytics, mathematics, sociology and management – including project management – as well as foreign languages and pedagogy.

Nowadays, SUT educates over 20,000 students at all three levels of study: Bachelor (and Engineering), Master and Doctoral studies. Those programmes are available both as full-time (over 15,000 full-time students) and part-time study. The Silesian University of Technology offers 11 programmes conducted in English. Until now, the Silesian University of Technology promoted over 180,000 engineers, over 4,500 doctorates and almost 900 postdoctorals. Graduates of our university often occupy managerial, directorial and other high positions in industrial corporations, which can be proven by numerous rankings conducted by independent research institutions.

The mission of the Silesian University of Technology, as a prestigious European technical university, is to conduct innovative scientific research, educate highly qualified staff, and influence the development of the regional and local communities.

Wide range of courses and high quality of education are factors that distinguish the Silesian University of Technology among all technical universities in Poland. Its status is further highlighted by academic achievements of outstanding professionals, both at national and international level.

The University is a key player in the fields of innovation and new technologies, thanks to scientific cooperation with various sectors relevant to economy.

The Silesian University of Technology was granted the **HR Excellence in Research logo**, which is a sign of recognition by the European Commission of the university's efforts to implement the principles adopted in the European Charter for Researchers and the Code of Conduct for the Recruitment of Researchers.

OFFERS FROM OUR UNIVERSITY

FACULTY OF ARCHITECTURE

SHORT DESCRIPTION



The Faculty of Architecture, Silesian University of Technology, is an educational and research unit, with research concerning architecture and urban planning. The Faculty enjoys strong support from local professionals; among the academic staff there are successful practitioners, whose presence enlivens and sharpens the educational environment. The Faculty is entitled to award: B.Sc., M.Sc. and Ph.D. academic degrees in Architecture and Urban Planning. The Faculty has about 80 employees and

approx. 500 students. The Faculty has hosted numerous events and conferences including BIWA (Interdisciplinary Research in Architecture), RMW (Region-City-Country), ULAR (Urban Landscape Renewal) or TEDxSilesianUniversityofTechnology. We have Erasmus partnerships with over 20 European architecture schools including Vrije Universiteit Brussel, Fachhochschule Aachen, Chalmers University of Technology, Kopenhavens Tekniske Skole, Gazi University Ankara, Izmir institute of Technology. The Faculty of Architecture is a member of AEEA/EAAE – European Association for Architectural Education and ECLAS – European Council of Landscape Architecture Schools. The Faculty of Architecture is situated in the Silesian University of Technology campus, near the historic center of Gliwice.

KEY RESEARCH AREAS

- Architectural design research - Trends and changes in the Polish architecture, studies on dwellings and commercial buildings and their transformations, technical bases for adaptation of the environment for the disabled people, etc. Housing design, new housing typologies, affordable housing, municipal housing policy, etc.
- Town planning and Urban design - dealing with current issues of Silesian municipalities, considering environment protection, landscaping, land use, urban design and masterplanning of new urban areas - neighborhoods, industrial zones, and special zones, such as airport cities
- Regeneration of post industrial and urban areas - research and design studios in the formula of PBL (Problem Based Learning). The scope of work ranges from identifying potential and problems in a district scale, through formulating regeneration strategies, to solving specific design issues. Numerous projects were completed for Silesian municipalities, as well as organizations such as coal mines, landscape parks etc.
- Qualitative research in built environment, public spaces quality analysis, place-making process analysis through participatory action research with local communities, facility management, ergonomic arrangement of architectural and urban spaces, effectiveness of space use, attractiveness of the customer's position, sustainable development and the impact of climate change on architecture, quality of the internal environment; Used methods and techniques: POE (Post Occupancy Evaluation), Design Thinking and others. Design for an aging society (<http://www.lab60plus.pl/en>)
- Landscape design, Designs of environment protection and biodiversity enrichment, habitat creation, nature valuation, designs of parks and greenery of urbanized areas. Design connected with BREEAM certification.

CONTACT PERSON

Michał Stangel, V-ce Dean for Research
e-mail: michal.stangel@polsl.pl
phone: +48 693779007

www.polsl.pl/en/Pages/RAr.aspx

SHORT DESCRIPTION



The Faculty of Biomedical Engineering is an organizational unit of the Silesian University of Technology established in 2010. It consists of: Department of Computer Science and Medical Equipment, Department of Biomaterials and Medical Devices Engineering, Department of Biomechanics and Department of Biosensors and Biomedical Signals Processing. The decision to appoint the first Faculty of Biomedical Engineering in Poland was the result of a great potential of knowledge and experience in this

field of scientific staff of SUT and the unique scientific and research equipment possessed. It forms the basis for research programs that can be used to shape public health policy.

The Faculty of Biomedical Engineering has a well-qualified scientific staff and modern research laboratories equipped with new generation equipment that ensures a high level of research. The unit is developing scientific-research and implementation cooperation with the medical devices industry and health care units. The issues of scientific research carried out at the Faculty of Biomedical Engineering were formulated on the basis of the intellectual potential of individual departments, their equipment base and the possibilities of cooperation with manufacturers of medical devices and clinical centers. Generally, it can be stated that the scientific and research work being carried out is aimed, among others, at the following issues:

- computer-assisted diagnostic imaging and three-dimensional visualization of selected anatomical structures,
- techniques for the production of metal biomaterials with modified structure and specific mechanical features with biocompatible surface layers for reconstruction and elastic tissue fixation,
- research on engineering methods applied in stabilization systems used in the treatment of skeletal system,
- signal analysis and testing of digital biomedical data processing algorithms for specialized applications supporting medical diagnostics.

The Faculty of Biomedical Engineering is also the organizer of regular national and international scientific conferences ("Information Technologies in Biomedicine", "Innovations in Biomedical Engineering", "Advances in Applied Biomechanics").

PROPOSED RESEARCH TOPIC (INDIVIDUAL FELLOWSHIPS)

- studies on ceramic-polymer composites used in 3D printing systems,
- functionalization of aluminum-silicates used as a filler in polymer-ceramic composites,
- nanometric Atomic Layer Deposition functionalization of metal biomaterials for various applications,
- experimental determination of the mechanical properties of human and animal tissue,
- evaluation of the functioning of the musculoskeletal system using experimental and model biomechanical methods,
- the use of virtual reality technology in rehabilitation,
- development of methods for segmentation of anatomical organs in terms of treatment planning
- development of computer-assisted methods for minimally invasive procedures.

CONTACT PERSON

Prof. Zbigniew Paszenda
zbigniew.paszenda@polsl.pl
Silesian University of Technology
Faculty of Biomedical Engineering

www.polsl.pl/en/Pages/RIB.aspx

SHORT DESCRIPTION



The Biotechnology Center (BC) is an extra-faculty entity dedicated primarily to research. Its main function is to foster multidisciplinary research. It was founded by the Rector of The Silesian University of Technology in January 2006 and was created under the project "Śląska BIO-FARMA. Centre of Biotechnology, Bioengineering and Bioinformatics". The Biotechnology Center brings together specialists mainly in the fields of cell biology,

bioinformatics, environmental biotechnology, pharmaceutical biotechnology, and through the close cooperation with the Institute of Oncology in Gliwice, and Medical University of Silesia in Katowice, also medical expertise. Through a close collaboration with the afore mentioned medical academic institutions, it allows for successful implementation of diverse scientific projects.

Biotechnology Center fosters cooperation between faculties of the Silesian University of Technology, hence it hosts research groups from various faculties and coordinates their interdisciplinary research activities in the broadly understood field of biotechnology. The staff of BC is active in obtaining funds from national and international programs – two projects have been awarded funding in 2018 by the National Centre for Research and Development, Poland. Modern research equipment at the Biotechnology Center enables conducting innovative research in the fields of biotechnology, computational biology and bioinformatics, bioorganic and medicinal chemistry, molecular genetics and genetic engineering, tissue engineering, spectroscopic analyzes, chromatographic analyzes, magnetic spectrometry nuclear resonance, imaging and image processing, isolation of enzyme proteins, environmental biology and microbiology, soil & soil bioremediation and monitoring of bacterial biocenoses.

Through close collaboration with local industry and the Institute of Non-Ferrous Metals (Gliwice branch) it has also 'first row' access to the forefront biomaterial sciences, manufacturing technologies and additive production processes (3D-printing).

The director of BC, Marek Łos, an MD/PhD, trained in Germany and Canada, an entrepreneur (founder of BioApplications Enterprises in Canada), strongly promotes the internationalization of BC. Through his part-time appointments at Silesian University of Medicine in Katowice, and Pomeranian Medical University in Szczecin, and joint scientific projects with those institutions, cultivates close ties to applied medical research and offers medical expertise-input to the projects carried in the BC.

LIST AND SHORT DESCRIPTION OF PARTICULAR ITEMS AND RESOURCES AVAILABLE AT BIOTECHNOLOGY CENTER

The Biotechnology Center is ideally suited to host the international scholars of Marie Skłodowska-Curie program as it offers a:

- broad multidisciplinary expertise in the area of biotechnology, cell biology, (bio)chemistry and regenerative medicine; an environment allowing for both making discoveries in biomedicine, and i.e. synthesize new drug candidates, all of that within a single building (~5000m² of combined lab and office space).
- through a close collaboration with the Oncology Center in Gliwice, and Silesian University of Medicine in Katowice, it allows for seamless arrangement of 'phase-I clinical trials' of novel experimental therapies
- through close collaboration with the Institute of Non-Ferrous Metals in Gliwice (currently 2 research grants realized together) it has the seamless access to various 3D-printing technologies, and related advanced equipment.

SCIENTIFIC EQUIPMENT

The Biotechnology Center offers specialized equipment assorted into four research areas (<http://www.cb.polsl.pl>):

- Bioinformatics and Biocomputing,
- Environmental Biotechnology,
- Genetics, Genetic Engineering and Tissue Engineering
- Chemical Synthesis & Analysis.

The afore mentioned research areas are equipped as follows:

- Bioinformatic cluster (unique to the south-west region of Poland):

The biocomputing lab harbours an advanced database servers that ensure fast storage, search and processing of biomedical data. The configuration of servers and database clusters available in the lab ensures redundant availability of databases in case of failure, with an automatic redirection of users to other available servers.

- Parallel computing cluster, (unique to the south-west region of Poland):

It possesses the computing power of about 10 TFLOPS; allows to carry out many complex calculations using stored biological data, not only from own database but also from databases available at other laboratories of the Biotechnology Center. The parallel computing cluster also enables the collection and sharing of data within one of the database systems (Oracle or MS SQL).

- Medical image processing and visualization lab:

1. Refractive spectroradiometer Konica-Minolta CS-2000 — allows, among others for: measuring the spectrum of any light sources, i.e. measurement of the spectrum of direct light, measurement of the reflection spectrum of indirect light reflected from objects
2. colorimeter 2D Konica-Minolta CA-2000 — enables simultaneous multi-point colorimetric measurement, among others: light sources, like monitors, control panels and switchboards (including, for example, dashboards for vehicles and devices),
3. colorimeter Konica-Minolta CA-310 —designed to conduct colorimetric measurements of screens of any display devices,
4. spectroradiometer Konica-Minolta CL-500A — portable device with high accuracy allowing, among others for measuring the spectrum of incident light and determining: color rendering indexes (R_a and R_i), the closest color temperature, the dominant wavelength.
5. systems for colorimetric calibration: X-Rite i1 Pro2, X-Rite Display Pro, Datacolor Spyder4ELITE, baslCColor DISCUS,
6. light chamber Just Normlicht LED Color Viewing Light; gives the possibility of simulating any sources of light, including sources with the UV component,
7. reference graphic monitors: NEC SpectraView Reference & Eizo ColorEdge,
8. Color printers in A3 format (photo-quality),
9. high quality flat scanners allowing for scanning of objects requiring the use of both reflected- or transmitted light.

- Data Preparation & Storage Facility:

The laboratory is equipped with 13 workstations (Samsung NC 241), so called Zero Client Display/Cloud Display, enabling work with virtual operating systems. PC-OVER-IP technology is integrated with the server. System virtualization is carried out using the VMware View environment.

- Laboratory for testing of Biological Systems:

1. Atomic Force Microscope; system Innova, (Bruker);
2. Raman spectrometer LabRAM HR Horiba Scientific.

- Laboratory of Soil Bioremediation:

1. FTIR spectrometer Biorad FTS 135;
2. Organic carbon TOC analyzer LCPH/CPN (Shimadzu).

- Laboratory of Environmental Biotechnology:

1. laboratory of sludge granules
2. wetlands research lab (wetlands treatment plant)
3. laboratory for the analysis of micro-pollutants
4. hybrid processes research lab

- Laboratory of Environmental Biology and Microbiology:

1. Biology laboratory

2. Mycology laboratory
3. Bacteriology laboratory
 - Laboratory of Bacterial Biocenosis Monitoring:
 1. laminar HERASafe KS (Thermo Scientific),
 2. termocykler C-1000 (BioRad),
 3. gradient electrophoresis system Dcode/Mutation Detection system (BioRad),
 4. gel electrophoresis systems,
 5. gel documentation system GelDoc XR i ChemiDoc XRS equipped with the Quantity One software (BioRad),
 6. hybridization oven HybriLinker (UVP)
 7. inverted fluorescence microscope with cell recognition software,
 8. basic laboratory equipment for DNA- RNA- and protein analysis
 - Advanced microscopy lab:
 1. Inverted scanning confocal fluorescence microscope Olympus FluoView FV1000 with a spectral SIM-scanner allowing for fast data acquisition;
 2. Motorized inverted fluorescence microscope IX81 equipped with Cell^R software and a high sensitivity digital camera (Hamamatsu), and microscope-incubator chamber for live intracellular imaging;
 3. Inverted fluorescence microscopes Zeiss and Olympus equipped with digital image processing software.
 - DNA & RNA processing lab:
 1. Hypobaric desiccator CentriVap;
 2. RealTime PCR (Chromo4; BioRad);
 3. PCR (DNA Engine; BioRad);
 4. Ultrasound sonicator VCX-130 (Sonics);
 5. Automated plate reader Infinite F200 Pro (TECAN) allowing for the detection of absorption, fluorescence & luminescence;
 6. gel documentation system (G BOX XT4; SYNGENE);
 7. spectrophotometer-plate reader Epoch (BioTek);
 8. spectrophotometer NanoDrop 2000 (ThermoScientific);
 - Fully equipped biochemistry lab:
 - Mikroarray analysis lab:
 1. Mikroarray scanner G2565CA (Agilent);
 2. Hybridization oven;
 3. bioanalyzer 2100 (Agilent);
 4. RealTime PCR (CFX96 Touch RealTime PCR System; BioRad) for HRM analysis;
 - Cytology lab:
 1. HPLC-EC, high-performance chromatography Dionex equipped with Esa detector Culochem III i UV-Vis (Waters);
 2. Flow-cytometer/cell sorter BD FACSAriaIII.
 - 2 fully equipped cell culture labs:
 1. 4 laminars
 2. 4 cell culture incubators including one capable of generating hypoxia conditions
 3. 2 advanced cell culture microscopes (JuLi Br, Paula; both incubator-compatible), with fluorescence channels and cell recognition software capable of automated proliferation curve calculations
 - Chromatography lab:
 1. UHPLC - Ultra High Performance Liquid Chromatography coupled with mass spectrometer
 2. SPE (Solid Phase Extraction).
 - Fully equipped lab for enzyme isolation:
 1. bioreactor;
 2. centrifuges;
 3. autoclav;
 4. water-baths;

5. desiccators;

- Spectroscopy lab:

spectrophotometr V-650 (Jasco).

- NMR-spectrometry lab:

spectrometer NMR Agilent 400-MR, for fast analysis of purity and content of tested samples.

Furthermore, within the Silesian University of Technology exist a Virtual Reality Projection system which also be adapted to visualization/simulation of intermolecular interactions.

CONTACT PERSON

Director of the Biotechnology Center

prof. dr hab. n. med. Marek Łos

tel/fax.: 32 237 2906

e-mail: Marek.Los@polsl.pl

<http://www.cb.polsl.pl/index.php/en>

SHORT DESCRIPTION



The Silesian University of Technology is one of the few universities in Poland that offer the possibility of studying in English in the field of Civil Engineering. The Structural Engineering major was established in 2005 as a response to growing needs of the international building companies present on the Polish market, as well as the increase of foreign students exchange.

The Civil Engineering course in English was pioneer on the national scale, with the curriculum created in cooperation with other technical universities, under the patronage of the EUCEET organization, where the Faculty of Civil Engineering of the Silesian University of Technology played one of the leading roles. The exchange of experience gave the possibility to create modern, compact and universal curriculum, adjusted from the beginning to the requirements of the Bologna Process.

Until recently, the Silesian University of Technology was the only university in Poland which offered the possibility of free studies on the Civil Engineering major in English. Despite the fact, that similar courses started appearing on other universities, SUT still plays a leading role in this respect.

The Faculty does not stop on its way to improve the quality of the Civil Engineering course in English. Nowadays, almost one fourth of our students are foreign exchange students.

STRUCTURE/ SCIENTIFIC RESEARCH/ TECHNOLOGICAL OFFER/ LABORATORIES AND EQUIPMENT

The Faculty of Civil Engineering consists of the following units:

- Laboratory of Civil Engineering Faculty
- Department of Building Structures
- Department of Building Engineering and Building Physics
- Department of Building Materials and Process Engineering
- Department of Building Structures Theory
- Department of Structural Engineering
- Department of Geotechnics and Roads
- Department of Mechanics and Bridges
- Site Surveying Team
- and numerous specialised laboratories.

The Faculty of Civil Engineering conducts research in the following fields of study:

- structures and shells theory, application of computer algebra in mechanics, computer methods in theory of structures, especially FEM, xFEM and FEM's computer programs: Autodesk® Robot, Simula® Abaqus, numerical analysis of structures (particularly building structures) subject to static and dynamic loads, as well as those exposed to the effects of mining subsidence and mining tremors, computer simulation of earthquakes, determination of dynamic resistance of structures, heat exchange, numerical modelling of heat transfer, thermal properties of build materials, inverse heat transfer problems,
- mechanics of materials: incremental theory of plasticity, damage mechanics, etc. Structure modelling using nonlinear material models,
- processes of physic, heat and moisture transport in the building envelope, thermal protection of buildings, building mycology,
- passive buildings, energy and environment simulation of building performance - Energy Plus, ESP-r, MES, CFD, building physics, sustainable buildings,
- environmental and building acoustics, laboratory and field measurement of airborne sound insulation of wall and building elements. Laboratory and field measurement of the impact of sound insulation in buildings, laboratory measurement of the sound absorption coefficient in

materials and objects,

- concrete, masonry, composite and timber structures; non-destructive and destructive testing of materials and structures; reinforcement of different types of structures (including historical heritage constructions) – also by using composite materials; construction works in the coal mine area; normalization in structural design; diagnosis of structural elements,
- diagnostics of concrete structures corrosion, electrochemical corrosion test, electrochemical regeneration of concrete, assessment of structures' durability,
- structural strengthening using FRP materials (also in case of historical buildings), diagnostics and monitoring, structural dynamics, industrial, special and smart structures,
- steel and cold-formed steel structures, their connections and joints, blind fasteners lap-joints girders with corrugated web, end-plate connections, ultimate and critical resistance,
- soil mechanics, foundations, geo-engineering, numerical analysis, material instability, methods of slope stability protection, laboratory and field testing of natural and anthropogenic soils,
- underground pipelines (water supply, sewerage, gas systems) and containers localized in the mining area, static and strengthening analysis of buried pipelines, numerical modelling of the interaction of pipelines of different stiffness with soil (MES),
- cement and concrete technology, the use of industrial by-products in the production of building materials, standardization process, rheology of cement-based mixtures and suspensions, innovative cements and binding materials, the use of raw materials in cement and concrete technology, engineering of building processes,
- durability of concrete, in particular modified with admixtures and additives, special concretes, fibre-reinforced concrete, computed tomography research,
- concrete technology, reinforcement dispersed binder heat of hydration, shrinkage and mechanical properties of mortars and concretes, concrete frost resistance,
- application of geometry in visual arts protection of architectural monuments, conservation of wall paintings, maintenance of buildings.

The Faculty has staff and laboratories to carry out wide range of expertise and research in the field of civil engineering, including, in particular:

- static and dynamic laboratory tests of reinforced concrete elements, including beams, slabs, columns in real scale,
- testing real scale masonry structures,
- testing metal structures,
- testing models of complex components taking into account imperfections and impact of high temperature,
- determining the strength parameters of concrete, masonry, timber and metal, including the identification of material parameters in a state of complex stress,
- determining the durability of building materials and products,
- research in the field of building acoustics,
- tests of thermal insulation for buildings,
- studies of the effects of mineral admixtures and additives for the chemical properties of the concrete mix and concrete,
- numerical methods supporting the organization works and cost processes,
- nonlinear static and dynamic analyses of building structures, modelling and analyses of damaged structures' behaviour using advanced material models,
- modern diagnostics of building's condition,
- possibility of concrete recycling in construction,
- revitalization of urban and industrial structure resources,
- reconstruction and reinforcement methods, including fibres and fibre-reinforced polymers.

The Faculty of Civil Engineering has at its disposal the following equipment:

- Integrated measuring and loading system for testing reinforced concrete structures
- Potentiostat Gamry Reference 600 for determining corrosion rate in reinforcement
- Environmental and corrosion test chamber, where the temperature and humidity can be adjusted
- Profile Grinding Kit – for concrete powder samples
- Vacuum evaporator – used to concentrate solutions and model pore water during tests

- Rheometer for cement paste and mortar Viskomat XL and NT
- TAM Air Calorimeter
- Automatic Vicat apparatus
- Shrinkage-Cone for testing plastic shrinkage
- Thin Layer Shrinkage System
- Graf-Kaufman apparatus for testing mortars shrinkage
- Chamber to test the aging of building materials, external façade texture invoices and layered walls structure
- Reverberation Chambers: acoustic absorption of materials; insulating from airborne sounds; insulating from impact sounds
- SoundPLAN 7.3 – used for noise mapping, conducting acoustic simulations and creating maps of the environmental and industrial acoustic noise levels
- Ultrasound device to test the time of setting – measuring early setting and hardening of cement pastes and mortars using ultrasonic waves
- Climate chamber – adopted for testing shrinkage of cement-based materials in different curing conditions, as well as rheological and setting properties
- Cement compression and flexural machine 300 kN
- Concrete compression and flexural machine 3000 kN
- Concrete flexural machine 200 kN
- Temperature curing chamber to accelerate curing of mortars and concrete
- Automatic Freeze-Thaw Tester to test resistance during freezing and thawing
- Mixers for mortars and concrete, moulds for mortar and concrete specimens, water baths, saws for concrete
- Los Angeles abrasion machine
- Böhme abrasion wheel tester
- Electromagnetic sieve shakers
- Micro Deval machine with safety cabinet
- Triaxial Apparatus for study of cohesive and non-cohesive soils
- Direct Shear Apparatus
- Oedometer
- Tapered penetrometer
- Cassagrande Apparatus
- Light Weight Deflectometer
- Full-scale Geogrid-Soil Interaction test station
- Sieve Extractor for indicating the composition of mineral-asphalt mixtures

CONTACT PERSON

Vice Dean for Science and Organization
 Professor Tomasz Ponikiewski, PhD, DSc
 e-mail: tomasz.ponikiewski@polsl.pl
 Phone: +48 32 237 19 96

www.polsl.pl/en/Pages/RB.aspx

SHORT DESCRIPTION



The Faculty of Organization and Management is located in Zabrze and employs 138 academic teachers and educates 2 200 students at 6 main courses: management, sociology, production engineering, logistic, project management and business intelligence.

There are four internal units at the Faculty: (1) Institute of Economics and Computer Science, (2) Department of Applied Social Sciences, (3) Institute of Production Engineering and (4) Institute of Management Sciences, Administration and Logistics.

Each of these units conducts research within their own academic disciplines which respectively are: economics, computer sciences, sociology, production engineering, management, project management and logistic. The diversity of research allows to implement of interdisciplinary projects that are in demand in modern industry and contemporary economy. It also creates possibilities of multidisciplinary expert consultations.

KEY RESEARCH AREAS

Our scientific interests and research fields focus on:

- Smart City,
- strategic and process management, business models and their implementation,
- economic cooperation, market competition,
- human resources management,
- Corporate Social Responsibility, Sustainable Development and ethical aspects of organizations' functioning, including anti-corruption practices,
- industrial economics and corporate finances, especially: risk and value management, customer relationship management and efficiency optimizing,
- finance and management in public sector,
- financial markets and business analysis,
- contemporary problems of economy,
- methods and models in statistics and econometrics,
- tourism, especially post-industrial tourism,
- technical systems in industrial enterprises,
- quality management and process management,
- production engineering including: ergonomics, acoustics, logistics, waste management and reclamation of post-industrial regions.

We are open for new challenges and willing to cooperate in international scale. We offer the professional staff and knowledge as well as the experience in mentioned above areas.

CONTACT PERSON

Izabela Jonek-Kowalska, PhD, DSc, associate prof.,
V-ce Dean for Science
e-mail: izabela.jonek-kowalska@polsl.pl
phone: + 48 501 251 147

<http://www.polsl.pl/en/Pages/ROZ.aspx>

LET'S TALK ABOUT THE MSCA IF APPLICATION PROCEDURE

WHO CAN APPLY?

This action is meant to support **the best, most promising individual researchers** from anywhere in the world.

Only **experienced researchers** can apply. This means you will have your doctoral degree or at least four years full-time research experience by the time of the call deadline.



WHAT CAN BE FUNDED?

All research areas can be funded except those covered by the EURATOM Treaty as referred to in article 4 and Annex I. **Mobility across borders** is a must. Cross-sectoral mobility is also encouraged.

WHAT DOES THE FUNDING COVER?

The grant provides an **allowance to cover your living, mobility and family costs**. The grant is awarded to your host organisation, usually a university, research centre or a company in Europe. The research costs and overheads of the host organisation(s) are also supported.

European Fellowships last from **12 to 24 months**. Global Fellowships are composed of an outgoing phase in a Third Country between 12 and 24 months, and a mandatory 12-month return period to a host organisation located in a Member State or Associated Country.

HOW DO I APPLY?

You submit a **research proposal**, including your CV. The proposal is **written jointly with your chosen host organisation(s)** (e.g. SUT ☺).

Proposals are submitted in reply to a **call for proposals** published here <https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/msca-if-2019>

Deadline: **11 September 2019**



JOIN US!



<https://www.polsl.pl/en>