



**Create  
your future!**



POZNAŃ  
UNIVERSITY  
OF LIFE SCIENCES

”  
**Education is the most powerful weapon which you can use to change the world**  
“

N. Mandela



over  
**100**  
years of  
academic tradition

over  
**70**  
years as an independent  
University

over  
**750**  
academic teachers  
and scientists

**3**  
study programs  
in English – BSc

**26**  
interesting fields  
of study

**29**  
postgraduate  
courses

**10**  
study programs  
in English – MSc

over  
**1300**  
employees

almost  
**7000**  
students

**6**  
faculties

over  
**100**  
professors

**25**  
student  
science clubs

# About University

The Poznań University of Life Sciences (PULS) takes a leading position in rankings of agricultural sciences in Poland. At present we have over 7 000 students, and 1 300 employees. Our six Faculties offer a wide scope of education within a lot of interesting fields of study, including: Biotechnology, Landscape Architecture, Agriculture, Horticulture, Forestry, Wood Technology, Environmental Protection, Animal Science, Food Technology, etc. We provide education within a 3-level system: I) studies for the degree of Engineer or undergraduate (bachelor) studies, II) graduate studies ending with a Master's degree, and III) doctoral studies (PhD). All our faculties have an extensive offer of postgraduate studies.

The Poznań University of Life Sciences offers state-of-the-art scientific and teaching facilities for the purposes of various innovative research, classes, workshops and student laboratories. Many units are perfectly equipped in unique latest-generation apparatuses which enable conducting collaborative projects with national and foreign partners. PULS conducts extensive scientific research and is open to cooperation with its socio-economic environment. Each of the University's organizational units carries out diverse research and disseminates the outcomes in multiple ways, including scientific and popular science papers, expert opinions, elaborations, diploma theses and reports. One of the fields of the University's scientific and research activities is the implementation



of various types of projects financed both from domestic and international resources. Students of the Poznań University of Life Sciences may enroll for studies or internships in foreign universities or institutions under Erasmus+ Programme which also offers exchange opportunities for academic and administrative staff. The University cooperates with more than 80 universities from various European countries. Erasmus+ is an opportunity for foreign students to enroll for studies or traineeships, and for foreign teachers to give lectures. Numerous international programs are in place that enable supporting the academic exchange in the area of education and professional training both for students and for academics. The University offers English language Master's Degree Programs. Based on the University's educational program, each of the six Faculties runs M.Sc. programs in the field of Agronomy, Biotechnology, Forestry, Wood Science, Horticulture: Seed Science and Technology, Geoinformation Science, Earth Observation and Spatial Management, Environmental Engineering and Protection, Agri-food Economics and Trade, Animal Production Management, Food Science and Nutrition.

# BSc in Land Resource Management

at the Faculty of Environmental and Mechanical Engineering

**Start date: October ■ Duration: 8 semesters (full-time)**

**Tuition fee:** 7 200 EUR (900 EUR per semester) + enrollment fee (65 EUR for non-EU candidates and 85 PLN for EU candidates and NAWA scholarship holders)

**The growth of the world's population entails an increasing demand for energy resulting from the intensification of industrial production and agriculture. In turn, these exploit the environment's resources and produce large amounts of waste and pollution. Consequently, new experts and specialists who will manage the environmental resources are required for the national and international economies in the future. The role of robust management in the land resources area will be crucial. The presented educational offer is addressed to those who would like to make an effort to study in English and gain the unique knowledge, skills, and competencies of this type. Expectedly, their involvement in land resources jobs will be necessary in the future in Poland, Europe, and other world regions.**

## Course overview

The proposed graduation program in LRM can effectively impart the knowledge and skills necessary to address today's socio-economic challenges by integrating theory and practice. Because of these, the designed educational path is based on groups of subjects necessary for achieving relevant learning outcomes. The applied classification is as follows:

- General subjects including mathematics, physics, environmental chemistry, ecology, biotechnology, spatial engineering and natural resource management, geoinformation, and engineering graphics. These subjects will be presented in proper socio-economic and environmental contexts.
- Subjects linking socio-economic and legal issues to create public awareness and effectively implement economic transformation processes. These will be presented in the context of covering a wide range of activities with special emphasis on a changing climate. They include the analysis of social, economic, and legal mechanisms of environmental impact and the development of strategies and solutions that promote sustainable development while reducing the negative effects of climate change. The discussed fields include environmental economics, natural resource economics, sustainability management, energy policy, public policy analysis, and social science, among others.

- Environmental subjects that take into account inventory, valorization, environmental assessment, principles of air protection, climate, animate nature systems, soil and water environment, and circulation of matter and energy in the environment.
- Technological subjects and subjects, including issues related to technical infrastructure, are crucial for solving engineering tasks in spatial management. Among others, there are ecological construction, water supply, sewage disposal, landfill, energy, and transportation systems in rural areas. These will be completed by issues of spatial engineering, water management, agricultural and forestry technologies related to soil conservation, reclamation, revitalization, and regulations governing their availability and use.
- Subjects presenting techniques and tools of information technology. These are mainly aimed at areas like spatial data resources, ways of data acquiring and processing, and health and safety requirements for working with data. Surveying, cartography, urban planning, construction, and environmental engineering are also there. This group of subjects includes principles of engineering graphics, too. The above-mentioned subjects are necessary for the planning and managing of space, both in urbanized and non-urbanized areas.

## Career opportunities

The study program enables the preparation of highly qualified managers. Its formation focuses on specialized content, including local government and spatial planning. It also includes modern methods of processing and analyzing spatial data and risk management in planning. Graduates will also gain business management skills, raise funds for local development, and identify risks from industrial production, agricultural production, exploitation of environmental resources, and electricity demand. Within the study program's framework, special emphasis is placed on managing environmental resources, focusing on their rational use to ensure proper spatial and environmental management. Effective spatial management and planning knowledge includes their use, diagnosis, analysis, and monitoring. The LRM degree program prepares graduates to manage the global economic landscape's complexities effectively. Against the backdrop of global challenges, the program will enable graduates to effectively engage with issues related to urbanization, sustainable development and environmental management, and urban planning at various levels — from local to global. The proposed LRM degree can effectively impart the knowledge and skills necessary to address today's socio-economic challenges by integrating theory and practice.

# BSc in Economics and Finance Management in Agri-food Sector

at the Faculty of Economics

**Start date: October ■ Duration: 6 semesters (full-time)**

**Tuition fee:** 3 000 EUR (500 EUR per 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>, 4<sup>th</sup>, 5<sup>th</sup>, 6<sup>th</sup> semester) + enrollment fee (65 EUR for non-EU candidates and 85 PLN for EU candidates and NAWA scholarship holders)

## Main modules

Microeconomics ■ International economics ■ Management ■ Law ■ Economic analysis ■ Marketing management ■ Introduction to econometrics ■ Basic of accounting ■ Corporate finance management

**Corporate finance management Bachelor's degree in the field of Economics and Finance Management in Agri-food Sector provides graduates with knowledge and skills in micro- and macroeconomics, economic policy, financial human and material resource management, international economic relations, economic law, market research, as well as modeling economic phenomena and processes. The educational profile of this course combines knowledge from the field of economics and finance with an understanding of specific issues related to agriculture, its environment, the agri-food industry, food trade and consumption, as well as rural development. By utilizing the latest scientific advancements and innovative teaching methods, the Economics and Finance Management in Agri-food Sector program educates professionals who possess profound knowledge and practical qualifications, meeting the needs of employers and addressing socio-economic challenges. This course is dedicated to students who want to perform a managerial role in business entities and institutions or run their businesses internationally, especially in the food economy.**

## Course overview

The course provides knowledge of mechanisms of the functioning of the economy, including the agri-food economy, as well as tools and instruments of economic and social policy. You will be familiar with the spatial diversification of the economy and modern economic structures worldwide, with particular emphasis on the agri-food sector, including the role of food supply chain management. We will help you understand the fundamental dilemmas of modern civilization, including the elements and basic principles of the functioning of

the financial system, institutions, and financial markets. We will provide you the knowledge in the field of the principles of operation, management and financing of business activities on the domestic and international markets, with particular emphasis on entities in the agri-food sector. You will be familiar with selected methods of economic research, including methods of studying and forecasting economic phenomena and processes and experimental methods in behavioral economics. You will also be taught what legal provisions and activities related to establishing and running a business, with particular emphasis on entities in the agri-food sector. During the course, you can gain practical skills in identifying and analyzing economic policy, skills how to interpret the obtained results and the economic, social and environmental effects of economic policy, with a specific focus on the agri-food sector. After completing the course you will know how to select and use tools to identify and analyze foreign and international trade policies, interpret the obtained results and assess the economic and social impacts of these policies, with a specific focus on the agri-food sector.

Faculty of Economics is known for the research in the fields of agricultural economics, regional and social policy in rural areas, international business, production and management in agribusiness companies, and consumption economics. The course teachers carry out research focused on socio-economic problems of the agri-food sector and rural areas in the EU countries, the influence of the agricultural policies measures on the development of agriculture and rural areas, international trade and in agri-food products, the competitiveness of the agri-food sector concerning regional and international markets, finance management in agribusiness companies and agricultural law, and they will be eager to share their experience with you. We invite students who are motivated to gain knowledge about economics and finance management in the agri-food sector, as well as the necessary qualifications to manage business projects, provide advisory services, and make rational decisions when operating in a (national and international) market economy environment. Our students will also receive training in running their businesses internationally, especially in the food economy.

## Career opportunities

Graduates are prepared to undertake jobs in business entities including junior-level management, especially in the agriculture and food industry, a specialist in the management of financial, human and material resources in production, services and trade enterprises. You will also be able to work in other institutions and economic organizations, such as banks or insurance companies, chambers of commerce, local and central government units, regional government units, consulting firms or international organizations related to the agri-food sector. You will also be prepared to run your own business internationally or to go on to work in research and education. You will be able to continue your studies at the Agri-food Economics and Trade master's degree program at our Faculty.

# BSc Crop Plant Biology and Production

at the Faculty of Agriculture, Horticulture and Biotechnology

**Start date: October ■ Duration: 6 semesters (full-time)**

**Tuition fee:** 6 000 EUR (1000 EUR per 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>, 4<sup>th</sup>, 5<sup>th</sup>, 6<sup>th</sup> semester) + enrollment fee (65 EUR for non-EU candidates and 85 PLN for EU candidates and NAWA scholarship holders)

## Main modules

- General Subjects: provide broad knowledge of the physical and chemical processes in nature, serving as a foundation for further studies.
- Biological Subjects: focused on understanding plant organism functions.
- Environmental Subjects: dedicated to understanding environmental processes, biodiversity, and sustainable resource use to maintain ecological balance.
- Agriculture and Horticulture Subjects: covering modern methods of plant breeding and cultivation technologies.
- Economic and Social Subjects: providing knowledge of the legal, social, and economic aspects of plant production.

**Bachelor's degree in the field of Crop Plant Biology and Production provides graduates with knowledge and skills in biology and crop plant production. The educational profile of this course combines knowledge from the field of agriculture and horticulture, biological sciences and biotechnology with an understanding of specific issues related to a holistic approach to modern and sustainable agricultural production. By utilizing the latest scientific advancements and innovative teaching methods, the Crop Plant Biology and Production program educates professionals who possess profound knowledge and practical qualifications, meeting the needs of employers and addressing agricultural production challenges. This course is dedicated to students who want to perform a managerial and leader role in plant production including agricultural entities and institutions.**

## Course overview

Agriculture, once primarily focused on delivering crops, has undergone significant transformations in recent years, not only economically but also ecologically and socially. Societal demands for an eco-friendly world, combined with high expectations for crop yields, necessitate a comprehensive, holistic approach. This is precisely the focus of the Crop Plant Biology and Production program. The curriculum equips students with the knowledge

to understand complex biological, chemical, agricultural, and environmental processes, enabling them to approach agricultural systems with a broad perspective. The program is designed to meet the evolving global priorities, which include environmental conservation, sustainable resource use, and advanced plant nutrition techniques. The global emphasis on environmental care and plant nutrition is reshaping national and global economies. This shift underscores the urgent need for a workforce with engineering expertise, innovative thinking, and conscious attitudes toward these new economic trends. This course highlights the growing need for professionals well-versed in plant needs and nutrition, especially in the context of new climate directives. Graduates of Crop Plant Biology and Production possess the knowledge and skills to address these demands, playing a critical role in both Polish and global economies over the coming decades. Discipline allocation within course subjects is: Agriculture and Horticulture – 64% (primary discipline), Biological Sciences – 30% and Biotechnology – 6%. This unique blend of disciplines ensures a well-rounded education, preparing graduates to tackle modern challenges in agriculture and beyond.

## Career opportunities

The published research findings clearly demonstrate that graduates of study programs related to agriculture and food production face no difficulties in securing employment. Such positive feedback and high demand from employers provide a clear answer to the unfulfilled need for skilled and educated professionals in this sector. Graduates are prepared to undertake jobs in managerial and leader role in plant and production including agricultural entities and institutions. Graduates of this program will be particularly prepared to pursue their careers in sectors such as crop production, horticultural and agricultural services, their own agribusiness ventures, companies specializing in agricultural and horticultural consultancy, and representations of various industry-related firms (both Polish and international), including those focused on plant protection and seed production.

**You will be able to continue your studies at the Agronomy, Horticulture and Seed Science Technology and Biotechnology master's degree program at our Faculty.**

# MSc in Agri-food economics and trade

at the Faculty of Economics

**Start date: October ■ Duration: 4 semesters (full-time)**

**Tuition fee:** 2000 EUR (500 EUR per 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>, 4<sup>th</sup> semester) + enrollment fee (65 EUR for non-EU candidates and 85 PLN for EU candidates and NAWA scholarship holders)

**Entry requirements BSc in:** Economics, Finances and Accounting, Management, Business Administration, International Relations or related fields of studies

## Main modules

Econometrics and economic processes forecasting ■ Managerial economics ■ International economics ■ International commercial law ■ Agri-food policy ■ World economy and agriculture ■ International marketing of agri-food products

**Master's degree in the field of Agri-food Economics and Trade provides graduates with in-depth knowledge and skills in micro and macroeconomics, international economics, international marketing, agri-food policy, trade policy, as well as commercial law. This course is dedicated to students who want to perform a managerial role in business entities and institutions, or run their own business internationally, especially in the food economy. The course is open to applicants who have a Bachelor's degree in at least one of the following fields of studies: Economics, Finances and Accounting, Management, Business Administration, International Relations or related fields of studies. Candidates must have essential knowledge and skills in economics at the academic level.**

## Course overview

Master's degree in the field of Agri-food Economics and Trade provides graduates with in-depth knowledge and skills in micro and macroeconomics, international economics, international marketing, agri-food policy, trade policy, as well as commercial law. This course is dedicated to students who want to perform a managerial role in business entities and institutions, or run their own business internationally, especially in the food economy. The course is open to applicants who have a Bachelor's degree in at least one of the following fields of studies: Economics, Finances and Accounting, Management, Business Administration, International Relations or related fields of studies. Candidates must have essential knowledge and skills in economics at the academic level. The course focuses on broadening students' knowledge of economic processes and

interdependencies, including open economy mechanisms. You will be familiar with the essence and role of national and international economic institutions, especially those dealing with international trade. We will help you understand the specific functioning of agribusiness operators in an open economy and the economic and organisational consequences of this specificity. We will provide you the knowledge in the field of functioning principles and development patterns of the agri-food sector and rural areas, agri-food policy objectives and tools used at national and international level, as well as specificities of financing methods for agribusiness operators. You will also be taught what are legal regulations and measures related to doing business, including in international markets. During the course, you can expand your practical skills in identifying, analysing and assessing economic phenomena which require an agri-food and trade policy to be put in place, and in assessing the adequacy and effectiveness of solutions implemented under such policies at national and international level. After completing the course you will know how to select and use methods and tools for economic analyses at micro, meso, and macro levels and for diagnosing and forecasting economic phenomena at national and international levels. You will also be taught how to plan, prepare and present a research project. Our faculty is known for the research in the field of agricultural economics, regional and social policy in rural areas, international business, production and management in agribusiness companies, and consumption economics. Course teachers have carried research focused on socio-economic problems of the agri-food sector and rural areas in the EU countries, influence of the agricultural policies measures on the development of agriculture and rural areas, international trade in agri-food products, competitiveness of the agri-food sector in relation to regional and international markets, finance management in agribusiness companies and agricultural law, and they will be eager to share their experience with you. We invite students who are motivated to gain knowledge about agri-food economics and trade, as well as the necessary qualifications to manage business projects, provide advisory services and make rational decisions when operating in a (national and international) market economy environment. Our students will also receive training in running their own business internationally, especially in the food economy.

## Career opportunities

Graduates are prepared to undertake jobs in business entities including senior-level management, especially in agriculture and food industry, commodity exchanges, foreign trade companies or affiliates of transnational corporations. You will also be able to work in other institutions and economic organizations, such as banks or insurance companies, chambers of commerce, local and central government units, regional government units, consulting firms or international organizations related to agri-food economy and trade. You will also be prepared to run your own business internationally or to go on to work in research and education.

# MSc in Agronomy

at the Faculty of Agriculture, Horticulture and Biotechnology

**Start date: October ■ Duration: 4 semesters (full-time)**

**Tuition fee:** 4200 EUR (1100 EUR per 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup> semester and 900 EUR per 4<sup>th</sup> semester) + enrollment fee (65 EUR for non-EU candidates and 85 PLN for EU candidates and NAWA scholarship holders)

**Entry requirements BSc in:** Agriculture Sciences, Agricultural Biotechnology, Animal Sciences, Agricultural Engineering

## Main modules

■ Agrobiotechnology ■ Methodology of agricultural experiments ■ Environmental management ■ Instrumental analyses

**Master's Degree Programme in Agronomy is addressed to candidates holding BSc degrees in a discipline related to the content of the programme. The programme of studies consists of compulsory subjects: crop management, data processing and experimental design, sustainable crop plants fertilization, economic and legal aspects of the company's activities, biotechnology in modern agriculture, plant breeding, instrumental analysis, soil biology and chemistry, diagnostics of plant nutritional disorders, integrated pest management, biomass production and management, crop protection; and facultative subjects with being part of a specialization selected individually by each student:**

**Module I – biomass and bioenergy, seed grain quality, drying and storage, crop irrigation, crop technologies, forage plant cultivation on arable land,**

**Module II – weed biology and control, principles of breeding for resistance, plant disease epidemiology, physiological foundations for plant resistance to pathogens and pests,**

**Module II – sustainable systems of crops fertilizing, diagnostics of crop plants nutritional disorders, nutrient management,**

**Module III – non-fodder utilization of grasses and grass communities, grassland management, grassland phytochemistry, optimization of forage production on grassland, biodiversity of agricultural ecosystems, forage seed production**

**Module IV – ecology of microorganisms, plant tissue and cell culture, genetic engineering, microbiology of natural environment, microbiology of plant and animal products**

**Obligatory subjects comprise about 35% of the programme of studies, and the rest are selected from specialization subjects.**

## Course overview

The Faculty of Agriculture, Horticulture and Biotechnology is the oldest faculty at Poznań University of Life Sciences, with over 100 years of history. The combination of experience and advanced techniques and technologies both in research and teaching practice set assets of the University. The Faculty has highly qualified personnel and excellent teaching and research facilities, including experimental stations. The Master's studies programme comprises over 1535 hours of lectures, laboratory classes, seminars, field trips and inspections, e.g. visits at pesticide manufacturing plants both in Poland and other EU countries. The programme is focused on broadly understood issues connected with agriculture in various management systems (conventional farming, organic farming, sustainability farming). The curriculum is based on a module system making it possible to intensify and rationalize the teaching and learning system. Interdisciplinary studies include the latest advances in theory and practice in the field of Agronomy and Agriculture, making it possible for our graduates to acquire skills and qualifications needed to work within the broadly understood agricultural sector, particularly plant breeding and seed production, plant protection against agrophages, renewable energy sources or plant nutrition.

## Career opportunities

Graduate agronomists have many career paths, but their careers are generally focused on increasing the quality and amount of food produced for the nation's food supply. They can be teachers, agricultural business consultants or researchers, they might work on farms or in agricultural labs and mills. The graduates will be required to write a Master's thesis and pass the examination.



# MSc in Animal Production Management

at the Faculty of Veterinary Medicine and Animal Science

**Start date: October ■ Duration: 4 semesters (full-time)**

**Tuition fee:** 4550 EUR (1200 EUR per 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup> semester and 950 EUR per 4<sup>th</sup> semester) + enrollment fee (65 EUR for non-EU candidates and 85 PLN for EU candidates and NAWA scholarship holders)

**Entry requirements BSc in:** Animal science, Agriculture, Biotechnology

## Main modules

Animal models in physiological research ■ Animal nutrition and feed management ■ Basics of law and management ■ Data science and bioinformatics ■ Ecology in animal husbandry ■ Biofood and quality of animal products ■ Animal improvement methods and genomics ■ Animal breeding programs ■ Aquaculture and its impact on environment ■ Preventive veterinary medicine ■ Farm management

**This course is suitable for students interested in both technical problems and life sciences. This is a practice-related higher education course teaching how to integrate environmental knowledge and technical measures to reduce the negative impact of human activity on the environment. The program focuses on rural areas, but also includes a wide range of problems in industrial and urban landscape.**

## Course overview

The course was developed through international cooperation with other European universities of high renown in the area of agricultural sciences, as well as national economic partners, e.g. companies operating in the sector of animal breeding and feed production. The course is based on the module system of classes and lectures improving intensity and efficiency of the teaching/learning process. It is focused on providing students with skills required on the labour market through interaction with highly qualified faculty and professionals during practical classes (student projects, laboratory and field classes) as well as traineeships. By gaining practical experience, students learn to connect scientific principles with the end product. We invite students who are eager to gain knowledge about biostatistics, elements of genetic engineering, genetics of quantitative traits, genomic selection, regulation of alimentary tract functions, technology of feed mix production, reproduction biotechnologies, animal disease prevention, principles of organic animal management and protection of gene

resources. Our students will also receive training in management of animal farms and farm work organization, animal production extension services and farm bioassurance.

## Career opportunities

Graduates are prepared to undertake jobs in international agricultural enterprises. Positions may include farm managers, animal husbandry assistants, ecological animal breeding advisors, advisors for breeding of wild animals and pets, animal nutrition advisors, etc.



# MSc in Biotechnology

at the Faculty of Agriculture, Horticulture and Biotechnology

**Start date: October ■ Duration: 4 semesters (full-time)**

**Tuition fee:** 4200 EUR (1100 EUR per 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup> semester and 900 EUR per 4<sup>th</sup> semester) + enrollment fee (65 EUR for non-EU candidates and 85 PLN for EU candidates and NAWA scholarship holders)

**Entry requirements BSc in:** Biotechnology, Biology, Biochemistry, Animal or Plant Science, Microbiology, Food Sciences, Other related fields of studies

## Main modules

Plant Biotechnology ■ Animal Biotechnology ■ Industrial Biotechnology ■ Genetic Diagnostics

**The Master's Degree programme in the Biotechnology is addressed to the candidates holding a BSc in the disciplines related to the content of the program. The program of studies consists of the following subjects: microorganisms in biotechnology, industrial applications of cell and tissue cultures, bioinformatics, genetic engineering, application of biotechnology in plant breeding, biotechnology in chemical industry and energetics, cytogenetics and chromosome engineering, gene expression and regulation, molecular diagnostics, data processing, and experimental design.**

## Course overview

The purpose of training students in the field of Biotechnology is to provide graduates with the knowledge about the technology and modern methods of experimental biology. The students of Biotechnology are being prepared to carry out research work aimed at, among others, the use of living organisms to obtain new products and implementation of the innovative manufacturing processes. The classes are conducted by academic teachers who are specialists in their fields so that Biotechnology at our University is among the best in the country. Teaching laboratories are equipped with devices designed to learn the latest technology, which makes them unique in the country. Research done by Biotechnology students is carried out in the Departments of our University or partner Research Institutes in Poznan.

## Career opportunities

The graduated biotechnologists have many career opportunities. Their careers are generally focused on work in the research and development sectors related to the production of new generation materials, pharmaceuticals, health care, food industry, livestock and crop production, the scientific institutions engaged in research in the medical diagnostics, and industrial biotechnology, as well as running own business.

# MSc in Environmental Engineering and Protection

at the Faculty of Environmental and Mechanical Engineering

**Start date: October ■ Duration: 4 semesters (full-time)**

**Tuition fee:** 4200 EUR (1100 EUR per 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup> semester and 900 EUR per 4<sup>th</sup> semester) + enrollment fee (65 EUR for non-EU candidates and 85 PLN for EU candidates and NAWA scholarship holders)

**Entry requirements BSc in:** Environmental Engineering, Environmental Protection, Environmental and Life Sciences, Spatial planning, Civil Engineering

## Main modules

Ecological applications ■ Soil protection and irrigation systems ■ Environmental assessment and monitoring ■ Ecosystem restoration ■ Technical infrastructure development ■ GIS and spatial planning ■ Seminars combined with analytical and statistical methods.

**With a changing climate, a growing population and the increasing needs of mankind, there is a demand for the intensive use and shaping of the environment we live in on the one hand, and the protection of this environment on the other. Our MSc course offers expert knowledge in the field of engineering and environmental protection that fits in with the needs of a rapidly developing world.**

## Course overview

Our studies provide a comprehensive education in the rational management of natural resources, but also in the forecasting, assessment, prevention and remediation of human impact on the environment. These studies are interdisciplinary, related to the principles of ecology and environmental protection, integrated with engineering solutions and using the latest and advanced technologies. Graduates have an understanding of how to reduce the negative impact of human activities on the environment using biological and technical measures. The course focuses particularly on the rural environment, but also covers a wide range of problems in industrial and urban landscapes. The course of study is suitable for students interested in both technical issues and natural sciences. Candidates for registration on this MSc course must first hold at least a Bachelor of Science degree (or equivalent).

## Career opportunities

Graduates are prepared to work in: companies preparing environmental impact assessment reports and monitoring the environment, various companies involved in environmental engineering, construction and installation, water engineering and environmental infrastructure development, planning agencies and urban and rural administrations.

# MSc in Food Science and Nutrition

at the Faculty of Food Science and Nutrition

**Start date: October ■ Duration: 3 semesters (full-time)**

**Tuition fee:** 3900 EUR (1300 EUR per 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup> semester) + enrollment fee (65 EUR for non-EU candidates and 85 PLN for EU candidates and NAWA scholarship holders)

**Entry requirements BSc in:** Food Science & Technology, Chemistry or Applied Chemistry, Chemical, Biochemical or Agricultural Engineering, Biotechnology, Human Nutrition, Biochemistry

## Main modules

Comprehensive studies in food processing and human nutrition ■ Advanced food processing and preservation ■ Advanced food analysis ■ Selected topics in food science ■ Field trips (visits to food industry plants) ■ Food product development ■ Quality and safety in food production

## Course overview

The programme started at the Poznań University of Life Sciences in the academic year 2011/2012. The course comprises 805 hours of lectures, laboratory classes, seminars, and visits to food companies. The studies give an excellent chance to develop a career in food science and technology and visit Europe. This course provides a technological and science basis for food production and preservation, assessment and control of food safety, diet and health issues and extension with industry. On successful completion of this programme, along with writing their MSc theses, students will be able to present an original research thesis, explain the principles of techniques used in food and nutrition research and apply them in practice. Graduates will acquire and demonstrate understanding of the technological and scientific basis for food production and preservation and methods for the assessment and control of food safety, while they will also be able to elaborate methods to modify and control food quality by means of chemical, microbiological and sensory analysis techniques. Course teachers have carried out research in many aspects of food technology, nutrition, food analysis, molecular biology and quality control and they will be eager to share their experience with you. During your studies you will have many possibilities to gain skills in applying unique technologies and using analytical equipment.

## Career opportunities

Career options include jobs in food technology industry, research and development divisions, food safety and food control departments, food quality laboratories, as well as PhD studies in food science and nutrition. You will also be prepared to participate in the realization of scientific and food industry projects. Thanks to the knowledge and skills you will gain during your studies, you will be able to work as advisors for companies, public departments as well as individual clients.



# MSc in Forestry

at the Faculty of Forestry and Wood Technology

**Start date: October ■ Duration: 4 semesters (full-time)**

**Tuition fee:** 3500 EUR (900 EUR for 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup> semester and 800 EUR for 4<sup>th</sup> semester) + enrollment fee (65 EUR for non-EU candidates and 85 PLN for EU candidates and NAWA scholarship holders)

**Entry requirements BSc in:** Forestry, Biology, Environmental sciences, Natural Environments and Wildlife

## Main modules

The course comprises a number of thematic subjects which can be roughly grouped in the following modules:

- Forest botany, zoology and game management
- Forest soils, ecology, silviculture and nurseries
- Forest inventory, forest growth science, management planning and GIS systems
- Forest technology and wood transport, engineering and hydrology,
- Forest utilization and forest products
- Forest protection, plant pathology, entomology
- Forest pedagogy, environmental ethics
- Plus a number of electives, which students are offered to choose from.

**Forests have always played a very important role in the development of human civilisation. Today, multifunctional and sustainable forestry is perceived not only as a source of renewable materials like e.g. wood, but also as a way to mitigate climate change and bring people back to nature.**

## Course overview

The Programme is designed for people who see their future career in forestry, forest industry, environmental management and in nature protection areas. MSc in Forestry offers a wide coverage of the latest issues in European forestry and combines natural, technical and economic knowledge by teaching how to manage one of the most complicated and fascinating terrestrial ecosystems to preserve natural biodiversity and provide wood to satisfy the needs of society. Today, forestry is a modern branch of science and uses the latest developments in genetics, geomatics and communications and information technology. We will help you explore different fields of forest activities, taking account of your interests. Practising forestry can be your way of life. You can change the world to make it greener, more sustainable and more human friendly.

## Career opportunities

Graduates are prepared to undertake jobs in the forestry sector, establishments dedicated to nature protection, wood procurement companies, as well as research and educational institutions. You will also be prepared to participate in research projects related to forestry and/or the environmental protection.

# MSc in Geoinformation and Spatial Management

at the Faculty of Environmental and Mechanical Engineering

**Start date: October ■ Duration: 4 semesters (full-time)**

**Tuition fee:** 4200 EUR (1100 EUR per 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup> semester and 900 EUR per 4<sup>th</sup> semester) + enrollment fee (65 EUR for non-EU candidates and 85 PLN for EU candidates and NAWA scholarship holders)

**Entry requirements BSc in:** Environmental protection, Environmental engineering, Geography, Spatial management or related courses

**Geoinformatics technologies, which are developing rapidly, are finding increasing application in many areas of life. Consequently, the demand for high-level professionals in this field is also growing.**

## Main modules

- **Environmental processes:** to understand basic environmental processes and use GIS tools for characterizing them
- **Technical and social aspects:** to possess the knowledge about technical infrastructure of rural and urban areas and settlements modeling of environmental processes and economic aspects of spatial management
- **Geo-information and Earth observation systems:** to apply modern geoinformation and remote sensing techniques for mapping and monitoring the natural environment, risk management, and protection of natural resources

## Course overview

Our course pays particular attention to the implementation of modern remote sensing and geo-information techniques, as well as spatial planning to promote sustainable urban and rural development. Students gain competence in the organization and management of optical, aerial and UAV campaigns and the processing of imaging spectroscopy data to map and monitor natural ecosystems, artificial infrastructure as well as natural hazards. With us they will gain knowledge of databases containing spatial and non-spatial data, data management, handling large databases and query optimization techniques. This is therefore a course of study for those interested in both technical issues and natural sciences. Candidates for registration on this MSc course must first hold at least a Bachelor of Science degree (or equivalent).

## Career opportunities

Upon successful completion of the course, participants may find better job prospects in: the fast-growing Geoinformatics industry, agencies and companies involved in the acquisition, management and analysis of spatial data, public and private sectors in the European and global market.

# MSc in Horticulture: Seed Science and Technology

at the Faculty of Agriculture, Horticulture and Biotechnology

**Start date: October ■ Duration: 4 semesters (full-time)**

**Tuition fee:** 4200 EUR (1100 EUR per 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup> semester and 900 EUR per 4<sup>th</sup> semester) + enrollment fee (65 EUR for non-EU candidates and 85 PLN for EU candidates and NAWA scholarship holders)

**Entry requirements BSc in:** Horticulture, Agriculture, Agronomy, Agricultural Engineering, Agricultural Biotechnology, Biology

## Main modules

Genetics and plant breeding ■ Sowing material production ■ New technologies in seed processing ■ Seed quality evaluation ■ Seed biology ■ Seed pathology ■ Business management and logistics in the seed industry

**Participants of this course will become acquainted with the most advanced branch of technology in the European Union. The course is suitable for students interested in the latest trends in Horticulture, especially in seed production, seed quality evaluation, and enhancement, seed marketing and management of seed company.**

## Course overview

The course gives a chance for an international career, delivering both theory and practice in seed production. The programme of the course emphasizes on seed production, quality evaluation, marketing and logistics, the specifics of seed market, the latest seed-processing technologies and seed storage, however, it covers also courses focused on various aspects of advanced horticulture, such as: molecular diagnostic of plant diseases, sustainable horticulture and modern trends in horticulture. The course teachers carry out research on ecology and variability of selected plants, fauna, and ecology of some insects families, plant stress, epidemiology and harmfulness of horticultural plants diseases, modern cultivation technology of vegetables, mushrooms, ornamental plants, herbs and pomology crops, and especially on seed marketing, seed vigour, seedborne diseases and seed health testing methods, and new chemical and non-chemical methods to control seed-borne pathogens. The visits to the top-ranked seed companies in Poland and Europe and institutes associated with seed certification are a significant part of the course. Research is carried out in plant selection fields and well-equipped research laboratories. Graduates, after completing the course, will gain insight into the whole branch of the economy and learn needed skills to successfully work in it, as a result of both studies and research conducted for their MSc theses.

## Career opportunities

The graduates of our course will be able to take up employment around the world, including work in seed and trade companies dealing with sowing material, public administration offices working with them as well as advising units connected with all range of agriculture. The graduates can also run seed farms or advise growers or institutions which do it and become experts in controlling institutions and courts of various level. Moreover, they will be prepared to work at several research units related to agriculture and to continue a scientific career.



# MSc in Wood Science

at the Faculty of Forestry and Wood Technology

**Start date: October ■ Duration: 4 semesters (full-time)**

**Tuition fee:** 3500 EUR (900 EUR per 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup> semester and 800 EUR per 4<sup>th</sup> semester) + enrollment fee (65 EUR for non-EU candidates and 85 PLN for EU candidates and NAWA scholarship holders)

**Entry requirements BSc in:** Wood Technology, Wood Science, Forest Products Engineering, Chemistry, Physics, Biology, Engineering mechanics

## Main modules

Physical properties of wood ■ Chemical properties of wood ■ Wood protection and modification ■ Drying and hydrothermal processing of wood ■ Furniture design and engineering ■ Wood machining

**A Master's degree in the field of Wood Science provides graduates with in-depth and multi-disciplinary knowledge in wood engineering, furniture design, wood protection, and modification. This course is dedicated to students who have completed their undergraduate studies in Wood Technology, or Wood Science, or Forest Products Engineering, or Forestry and have received a BSc degree in the above-mentioned studies or related sciences such as Renewable Materials, Natural Resources, Forest Engineering, Ecological Engineering, Environmental Engineering, Bioengineering, etc. We have an excellent student-to-professor ratio, guaranteeing personal attention and supervision for all students in the programme. All students learn wood anatomy and chemical properties of wood, wood processing, how furniture is created, how wood can be combined with other materials, and how it can be protected. We emphasize in our course that Wood Science is the key to natural resource conservation, as it is the only field that provides education for the proper utilization of the most widely used natural resource.**

## Course overview

The course focuses on the optimal use of renewable material such as wood both in conventional and modern industries. Our course is exceptional because, during studies at our Faculty, you will gain knowledge both in chemical and mechanical wood technology as well as furniture design. You will be taught how to select materials for the wood industry based on their chemical and physical properties and how to prepare them to suit the needs of a specific wood industry sector. By completing our studies you will know which characteristics of wood are the most important for mechanical and chemical wood technology. You will also become acquainted with modern woodworking technologies and state-of-the-art woodworking machinery used in the wood industry. We will teach you that timber

drying is a complex process, of great importance for wood technology. You will discover causes for the degradation of wood and wood-based panels and the means of their protection. We are going to show you how to glue wood and which coatings should be used for wood and wood-based panels. We will help you explore knowledge connected with the history of furniture design and furniture production management. We have professional and modern equipment in our labs and semi-industrial facilities so you will be able to explore many aspects related to wood science in a practical way. Our Faculty is known for excellent collaboration with the wood industry. Therefore, you can expand your practical skills during the course by visiting companies associated with the timber industry. The course teachers carry out research on the physical and chemical properties of wood, wood protection, drying and hydrothermal processing of wood, wood machining, gluing and coating of wood, furniture design, and engineering, and they will be eager to share their experience with you. We invite students who are motivated to gain knowledge concerning wood, which is a renewable, durable, versatile, and beautiful material, which helps tackle climate change and has a unique ability to store carbon. Field trips organized as educational activities taking place in the industry, give you a good opportunity to face practical problems related to the field of study. The trips give students a chance to share their thoughts and ideas about practical problems. It is also an important activity in preparing students for their near-future jobs.

## Course opportunities

There is an increasing demand for sustainable biomaterials, and tremendous opportunities for professionals to help with the design, engineering, manufacturing, and sales of these new materials and products. Graduates from Wood Science studies are prepared to undertake jobs in the forest products industry, the sawmilling industry, and companies cooperating with the wood processing industry (e.g. furniture or wood-based panel industry and similar). Job locations are available globally, both in large metropolitan centers and in rural communities.



# PULS Doctoral School

**Start date: October ■ Duration: 8 semesters ■ Degree: PhD**

From the academic year 2019/2020 the PULS Doctoral School is open to the candidates from all over the world. The scientific degree of Ph.D. can be obtained in the following disciplines:

1. forestry sciences
2. agriculture and horticulture
3. food technology and nutrition
4. animal sciences and aquaculture
5. mechanical engineering
6. environmental engineering, mining engineering and power engineering
7. biological sciences
8. economics and finances

**Each PhD student has opportunity to pursue an individual research plan and interdisciplinary doctoral program, with scholarship provided by the university.**

**[www.en.puls.edu.pl](http://www.en.puls.edu.pl)**

**Contact us:**

**[puls.doctoral.school@up.poznan.pl](mailto:puls.doctoral.school@up.poznan.pl)**

**+48 618 46 61 95**



## About Poznań

Poznań is one of the Poland's largest and oldest cities. Historically, it is the cradle of the Polish state which dates back to the tenth century. More than a thousand years of history have left many vestiges which, today, attract visitors to the modern yet historical capital of Wielkopolska. Located in the central-western part of Poland, in the Warta river basin, Poznań is the central point and capital of the Wielkopolskie voivodeship. Today, with a population of over 536 000, it is one of the Poland's largest cities.

Poznań boasts a large number of public and non-public higher education institutions which lead the national university ranking. More than a thousand professors are there to assist the students. The 25 universities offer over 200 majors, state-of-the-art education centers, extended international exchange programs, modern, high-quality campuses and programs that help the graduates enter the labor market. Poznań hosts over 102 000 students, including about 4 000 foreigners from more than 90 countries around the world. Each year, 25 000+ students graduate from the universities of Poznań.

Poznań, one of the Poland's largest financial and business centers, is the trade fair city which organizes over 50 trade events attracting nearly half a million visitors each year. A city of specialists and new technologies, Poznań is also a dynamically growing business center where the world's largest companies have their offices. In Poznań, almost 127 000 companies are active, and the number of foreign-owned companies is one of the highest in Poland. For many years, Poznań has had one of the country's lowest unemployment rates. The city might be said to be attractive and friendly to young entrepreneurs.



# 5 easy steps to become PULS student



## 1. Register...

in our recruitment system on website  
February



## 2. Send...

your **ADMISSION DOCUMENTS SET**  
to [mscinfo@up.poznan.pl](mailto:mscinfo@up.poznan.pl)  
Till end of May



## 3. Wait...

for the positive decision of the  
Faculty Board according to the **DEADLINES.**  
June



## 4. Pay...

your **Enrollment and Tuition Fee**  
(or only an **Enrolment fee for the free courses**)  
accordingly to the deadlines.  
June/July



## 5. Choose...

Choose your room in our **Student Halls of Residence,**  
book and pay.  
July/August

# Student's testimonials



My name is Christabel, I am a Nigerian currently studying MSc in Biotechnology at the faculty of Agronomy and Biotechnology here at Poznan University of Life Sciences. I chose to come to PULS because they offer a globally recognized degree in life sciences (one of the only Life Sciences degrees in Poland) and boast of very strong research facilities. Ordinarily, I was excited to come here! So far, the experience has been breathtaking and far beyond my expectations. All staff, both academic and non-academic are approachable, helpful and kind, especially the international student's advisor's office. Always eager and willing to assist. I am sure I speak for every international student in this school. The biotechnology program I am enrolled in has been thrilling and filled with excitement for me as I learn every day. The instructors are super nice and make every class very interesting as well as provide a strong practical element to the courses using laboratory classes integrated into the program from start and

I believe till finish. I am also privileged to be a part of the "Best of Nature" Scholarship Integrated Program of Development of the PULS. I will say, without a doubt, PULS is the place to be.

Christabel, Nigeria

As an student of MSc in Horticulture (Seed science and technology), the opportunity PULS (Poznań University of Life Science) gave me will not only benefit me. Rather the knowledge, exposure, diversity I will attain here is going to have a tremendous positive impact to the world. "looking back at my journey, having to lose my dad at the age of 5, and raised by a single parent, I grew up in Rutendo, Redcliff right at the center of Zimbabwe. There were times that I had to think what me and my family are going to eat next, times were I survived death by a scare due to a national outbreak. Those times brought the most out of me, it gave birth to a stronger me. I had a dream, and the dream was Europe, too many noises were saying its a huge leap and its an unattainable dream, but I learned that no matter how dark life gets, the light will return. I made a choice to study Agriculture, because of the desire to eliminate hunger by finding today's and tomorrows solutions through research and science. My previous studies and work experience elevated my appreciation of science, and with the combined opportunity PULS and European Union social fund presented, a dream came true: Today I get opportunity to diversify my culture knowledge as PULS brings students from all over the world at one place, the opportunity to be exposed to high technology of laboratories, industrial experience through company visits and most of all the new, detailed and specific knowledge." A bad seed will result in low or no harvest at all, my responsibility is to ensure that the world gets good, healthy seeds, for tomorrow is our future (Edwin Tapiwa Toreveyi, Master of Horticulture (Seed Science and Technology)).



Edwin Tapiwa Toreveyi, Zimbabwe



When I studied for a bachelor, I always dreamed of studying at a magistracy abroad. At the end of the undergraduate school year, I began to search for universities in Europe from the Internet. And once I read about the PULS program. I became interested and decided to submit documents to the University of Life Sciences in Poznan. And now I am studying under the PULS program at the faculty of Economics and Social Sciences. From the first day, I began to like studying here. The level of study, to give students the opportunity to learn independent and help in this to them, the conditions for students, support from the university in everything you begin to notice in the first days of your studies. At the beginning of the school year, every year the university organizes various events in order to get acquainted with the university and make new friends. And most importantly, what I liked here, I found many friends from different parts of the world.

Firdavs Vokhidov, Uzbekistan



## CONTACTS:

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### **MSc Studies**

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### **Erasmus+ Programme**

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