

ERASMUS+INTERNSHIPS OFFER - INSTITUTE OF ENVIRONMENTAL ENGINEERING

1	<p>Marzena Jasiewicz, PhD Eng. Discipline: Environmental Engineering Scientific interests: alternative energy sources, interior installations, physics of buildings Internship possibilities:</p> <ul style="list-style-type: none"> – Balancing renewable energy. Estimating the potential of energy from renewable sources. Selection, calculation and design of basic technological systems of heat sources using RES. – The project incorporates water and sewerage, installation of hot and cold water from the circulation, installation of sewage and rainwater for building multi-family. – Leakage tests, searching for thermal bridges and installation leaks using a thermal camera.
2	<p>Ewa Ogiolda, PhD Eng. Discipline: Environmental Engineering Scientific interests: water supply, trenchless technologies Internship possibilities:</p> <ul style="list-style-type: none"> – Water consumption characteristic (volume and irregularity), – Causes and magnitude of water losses, – Calculation of water supply systems parameters, – Trenchless technologies.
3	<p>Ireneusz Nowogoński, PhD Eng. Discipline: Environmental Engineering Scientific interests: water supply, urban hydrology Internship possibilities:</p> <ul style="list-style-type: none"> – Modern simulation methods for water supply systems including inventory results, nodal distribution estimation methods. – Modern simulation methods for sewerage systems including analysis of rainwater catchments and typical sewerage network facilities. – Analysis of rain gauge data – Preparation of simulation models of a selected urbanised area.
4	<p>Piotr Ziembicki, PhD Eng. Discipline: Environmental Engineering Scientific interests: thermal energy, heating, ventilation, computer simulation and AI, district heating systems, energy analysis of buildings Internship possibilities:</p> <ul style="list-style-type: none"> – Buildings energy analysis using computer simulation methods (software used: DesignBuilder, EnergyPlus, OpenStudio, SketchUp), – HVAC systems energy efficiency analysis using computer software and python programming, – Pollutions emissions analysis for buildings of any type based on databases and facility inventory (required skills: basics of relational databases, basic programming skills in python and R language), – Innovative system for monitoring and analysis of air quality in the city of Zary
5	<p>Andrzej Greinert, PhD, hab. Eng., Prof. at University of Zielona Gora Discipline: Environmental Engineering Scientific interests: SUITMA-s; soil degradation; soil reclamation; urban areas development and management; municipal green areas Internship possibilities:</p> <ul style="list-style-type: none"> – Historical and contemporary soil forming factors and effects of their activity, – Construction and demolition wastes in soil – diversity, effects, – Durability of anthropogenic transformations of urban soils, – Urban soils characteristics as a factor limiting possibilities of a land use, <p>Urban green areas development as a factor of sustainable development of the city.</p>
6	<p>Jakub Kostecki, PhD Eng. Discipline: Environmental Engineering Scientific interests: heavy metal/trace elements in environment; environmental impact assessment; SUITMAS; soil degradation; soil – plant interaction Internship possibilities:</p> <ul style="list-style-type: none"> – The state of the environment in the selected area (urban, industrial), – Urban soils sealing, – Use of selected wastes (eg. brewery waste, wine waste, sewage sludge) in circular economy, – Environmental impact assessment, – Soil contamination in the city/industrial plant.

7	<p>Marta Gortych, PhD Eng. Discipline: Environmental Engineering Scientific interests: energy storage, energy storage in phase-change materials, heat and mass transfer and hydrology Internship possibilities:</p> <ul style="list-style-type: none"> - Modern energy storage such as thermal or chemical energy storage, - Mass and heat flow in various types of materials e.g. PCM metrics used in construction, - Hydrology e.g. determination of watercourse balances.
8	<p>Katarzyna Łuszczyńska, PhD Eng. Discipline: Environmental Engineering Scientific interests: bioindication, sick building syndrome (SBS), moulds in buildings Internship possibilities:</p> <ul style="list-style-type: none"> - The application of bioindication methods for the determination of the toxicity of moulds in buildings - Mycological analyzes in construction and assessment of potential health hazards of inhabitants - Use of biotoxicological methods to assess environmental contamination, - Plankton as an indicator of water purity, - Biological analysis of activated sludge, - Interested in field of technical microbiology.
9	<p>Roza Wasylewicz, PhD Eng. Discipline: Environmental Engineering Scientific interests: heavy metal and trace elements in environment; soil degradation; adaptation to climate change of a urban areas Internship possibilities:</p> <ul style="list-style-type: none"> - The state of the environment in the urban or industrial area, - Soil contamination in the city or selected industrial plant, - Adaptation to climate change of a selected urban area.
10	<p>Sylvia Myszograj, PhD eng., hab. professor at University of Zielona Gora Discipline: Environmental Engineering Scientific interests: wastewater treatment technology, sewage sludge management, energy from waste, microplastic Internship possibilities:</p> <ul style="list-style-type: none"> - Microplastics in wastewater - determination and removal technologies, - Intensification of sewage sludge and biowaste anaerobic digestion, - Trace elements in methane fermentation.
11	<p>Izabela Krupińska, PhD, hab. professor at University of Zielona Gora Discipline: Environmental Engineering Scientific interests: coagulation processes, groundwater purification, iron removal Internship possibilities:</p> <ul style="list-style-type: none"> - Optimization of the coagulation process for the removal of oxidation by-product precursors and disinfection based on absorbance measurements at 254 and 272 nm, - Application of Zeta potential to assess the efficiency of water purification in the coagulation process.
12	<p>Ewelina Pluciennik-Koropczuk, PhD Eng. Discipline: Environmental Engineering Scientific interests: wastewater treatment Internship possibilities:</p> <ul style="list-style-type: none"> - Technologies for the treatment of municipal and industrial wastewater, - Removal of pollutants difficult to biochemical decomposition, - Removal of micropollutants from wastewater (especially from the PPCPs group), - Estimation of the risks of PPCPs to the environment and human health, <p>The possibility of recovering raw materials and resources from wastewater and sludge streams.</p>
13	<p>Anita Jakubaszek, PhD Eng. Discipline: Environmental Engineering Scientific interests: wastewater treatment, heavy metal/trace elements in wastewater, Internship possibilities:</p> <ul style="list-style-type: none"> - Municipal and industrial wastewater treatment, - Optimization of wastewater treatment systems, - Biogenic compounds and heavy metals in wastewater treatment plants, - Wastewater treatment in constructed wetlands, <p>Individual wastewater treatment systems</p>