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# AGH UST in rankings

## Polish rankings

### **“Perspektywy 2020” University Ranking**

In the 2020 ranking by “Perspektywy”, regarded as the most important evaluation of Polish universities, AGH UST was ranked number 4 overall, and number 2 in the technical universities category. AGH UST also took first place among Polish technical universities in the categories of “Scientific potential”, “Study conditions”, “Publications”, and “Scientific effectiveness”.

### **“Perspektywy 2020” Ranking of Engineering Programmes**

This ranking included the 21 most popular disciplines of technical studies. According to the Ranking Jury, AGH UST offers the best engineering study programmes in Poland in three fields of study: Mining and Geology, Mechatronics, and Technical Physics.



### **“Forge of Executives” 2019**

AGH UST came third in the ranking of Polish universities and colleges producing the highest number of top executives. This ranking, organised by the “Rzeczpospolita” daily newspaper, analysed the careers of 600 CEOs of Poland’s largest companies and found that 5.67% of them are AGH UST graduates.

### **Millionaires Ranking 2020**

AGH UST took first place in the 2020 University Ranking assessing the fortunes of the richest Poles. According to the ranking by Pracownia 2033, 11 AGH-UST graduates have accumulated fortunes in excess of 100 million euros.

### **National Salary Survey**

In 2019, AGH UST came second with regard to the total earnings of technical university graduates in their first year of employment.

# International rankings

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*AGH UST is in the lead among Polish technical universities in prestigious international rankings.*

## 1st PLACE

- University Ranking by Academic Performance 2019–2020
  - CWTS Leiden Ranking 2020
  - CWUR – World University Rankings 2020–2021
  - Webometrics 2020
  - Nature Index 2020
- 

## 2nd PLACE

- Transparent Ranking: the best universities according to Top Google Scholar
  - US News Best Global Universities 2020
  - QS World University Rankings 2021
- 

## 3rd PLACE

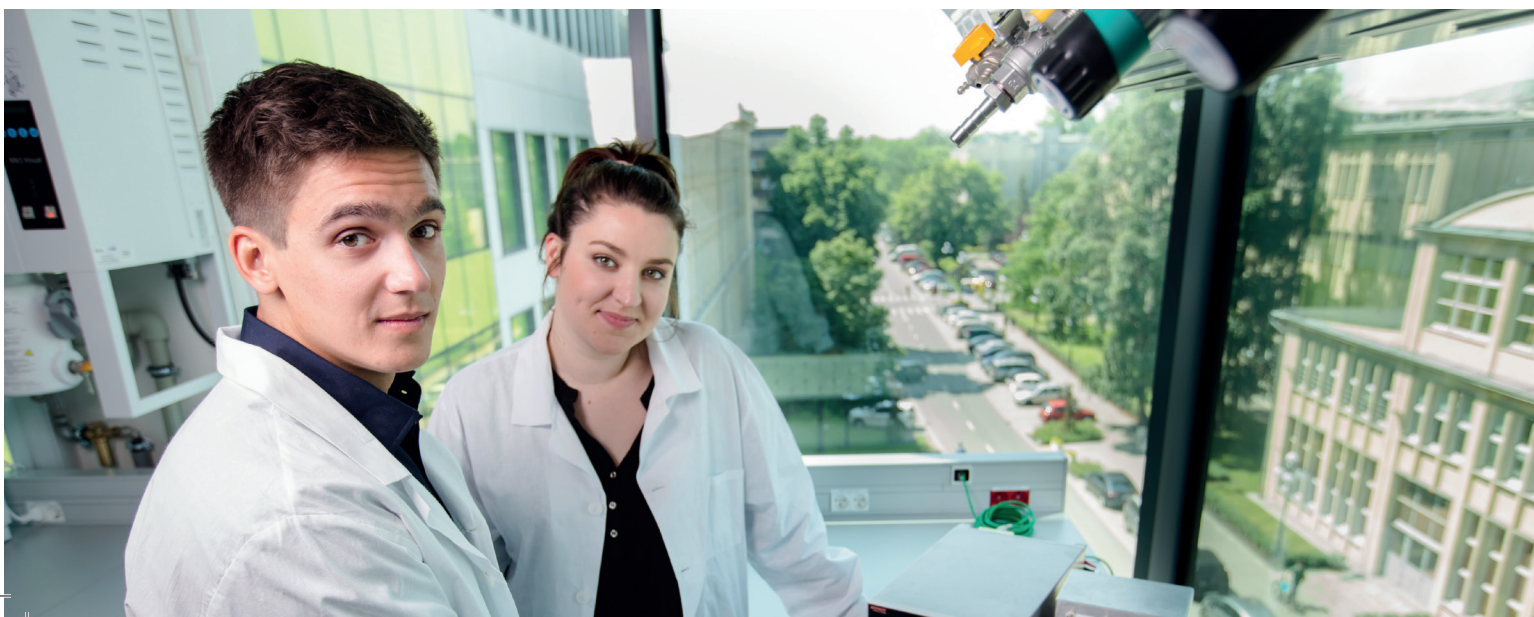
- QS 2020: Quacquarelli Symonds – Emerging Europe and Central Asia

# A Research University

**AGH UST is among the winners of the first competition held as part of the programme “Initiative for Excellence – Research University”. This programme is one of the most important initiatives of the Ministry of Science and Higher Education provided for in the Constitution for Science.**



One of the main aims of AGH UST is the internationalisation of the institution and its transformation into a modern technical university which in the course of 10-15 years will become an attractive place to study and work, in a way comparable to other well-known European universities. The status of a research university means access to additional funds which will allow the academic staff to focus more extensively on research activity, as well as on improving the quality of education. The additional subsidy also provides the opportunity to compete with universities which top international ranking lists, in addition to strengthening research-related collaboration with scientific institutions which enjoy worldwide recognition. The beneficiaries of the funds will, in the first instance, be research teams working in so-called “Priority Research Areas”.





# Priority Research Areas



## *Objectives*

- *strengthening the international position and recognisability of AGH UST*
- *developing potential for effective competition with the best academic centres in Europe and around the world*

- Sustainable energy technologies, renewable sources of energy, and energy storage
- New technologies for the circular economy
- Water–energy–climate: an interdisciplinary approach to sustainable development
- Technical solutions: from fundamental research to modelling and design to prototypes
- Materials, technologies and processes inspired by nature
- Intelligent information, telecommunications, computer technologies, control and operations technologies
- Design, production, and testing of modern materials and technologies of the future
- Crossing boundaries: experimental high energy physics, extreme states of matter, transdisciplinary applications

# Research – a source of innovation

**Developing research at the highest level, searching for new technologies that can be applied to industry, creating innovative solutions – these are our priorities through which we have influence on contemporary science and the economy.**

AGH UST has a staff of over 2,000 teachers and scientists, of whom more than 700 have the status of independent researchers. Our scientists present the results of their research projects by organising and participating in several dozen international and Polish conferences and science symposia every year. Their extensive experience and qualifications at the highest level enable many AGH UST professors to hold important functions in prestigious scientific bodies both in Poland and abroad.

Our research activities are supported by the most modern equipment. We have one of the most powerful microscopes in the world (the Titan Cubed G-2 60-300) and unique technological and measurement equipment, including devices working in conditions of high cleanliness in a so-called “clean room” with equipment designed for nanotechnology and material nanodiagnostics.

There are also laboratories equipped with advanced apparatus and devices such as the Laboratory for the Evaluation of Energetic Efficiency and Automatic Control of Buildings (AutBudNet), which is unique in Poland and East-Central Europe in holding the accreditation of LonMark International, the RWE – AGH UST Solar Lab, which is the first LTE laboratory at a Polish university, the AGH UST – KGHM Laboratory of Critical Elements, and the Laboratory of Microelectronics and Radiation Sensors.





The university carries out projects financed by the Ministry of Science and Higher Education, the European Commission, the National Science Centre, the National Centre for Research and Development, and the Polish National Agency for Academic Exchange.

The university carries out domestic research projects, research and development projects for industry, as well as projects conducted jointly with international partners within the framework of the following programmes: EU Programmes HORIZON 2020, KIC InnoEnergy, KIC RawMaterials, POLONEZ, HARMONIA, MOTOROLA grants, International Visegrad Fund, Research Fund for Coal and Steel, ERA, bilateral collaboration programmes, Erasmus+, and Structural Funds.

# A Unique Campus

**One of AGH UST's greatest assets is its unique university campus comprising all university buildings and facilities which host lectures, classes and research activities.**

It is also home to the university administration, student organisations, and sports and recreational facilities, as well as the AGH UST Student Campus – all located in the centre of Kraków.

## The AGH UST Student Campus

AGH Campus residents can reach the university buildings within ten minutes. Comfortable conditions are a great asset of the halls of residence: access to the Internet, dedicated learning areas, TV lounges, and club rooms. The university ensures the comfort and well-being of Campus residents by regularly refurbishing and modernising student accommodation.

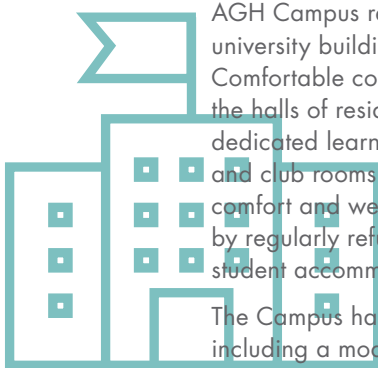
The Campus has its own sports facilities including a modern football pitch, volleyball and basketball courts with laminate flooring, and tennis courts. The state-of-the-art AGH



UST Swimming Pool is yet another point of interest on the map of the Campus. The close proximity of Błonia and Jordana Parks allows runners, joggers, cyclists, and roller skaters to spend time actively enjoying the city's green areas and picturesque scenery.

Throughout the year, the AGH UST Student Campus also offers accommodation in comfortable hostels. Tourists are welcome to take advantage of the hostel's attractive offer at what are considered to be very affordable prices. In July, August, and September, the AGH UST Student Campus becomes the largest summer hostel in Kraków.

Details of hostel accommodation are available on the website: [www.taniehostele.pl](http://www.taniehostele.pl).



# “A city within a city”

- 20 halls of residence
- eating establishments
- shops and service-providing facilities
- student clubs
- health centre
- football pitch
- tennis courts
- volleyball and basketball courts
- nursery school
- crèche
- parcel lockers
- AGH UST Swimming Pool



**5**

minutes

*Blonia and  
Jordana Parks*

**10**

minutes

*Main  
Market Square*

**15**

minutes

*Wawel Castle and  
Vistulan Boulevards*

**20**

minutes

*Kraków Central  
Railway Station*

**25**

minutes

*Old Jewish  
district Kazimierz*

**30**

minutes

*Kraków  
Balice Airport*



# Student Special Interest Groups

**AGH UST is home to nearly 140 special interest groups run by and for students and 30 student organisations.**

Students who are members of the groups can broaden their knowledge, accomplish various projects, and develop their interests and passions for sports, arts, and journalism.



## Student organisations

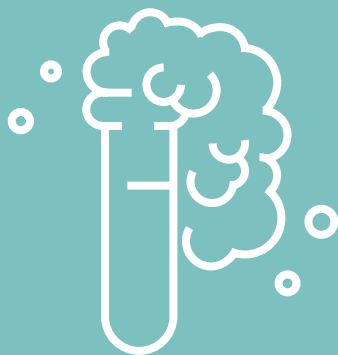


### SPORT

- AGH UST Cycling Team
- Academic Cavers' Club
- Academic Sailing Club
- AGH UST Academic Sports Association
- Just Bridge
- Kayak Club
- "Hawiarska Koliba" Club of Tourism Organisers and Enthusiasts
- "Krabik" Sports Club
- Academic Section of the Mountaineering Club (SAKWa)
- "Sokół" Karate Section Kyokushin UOS
- AGH UST Student Ski Club FIRN

## SCIENCE

- AGH UST BEST
- AGH UST Kraków EESTEC
- AGH UST Erasmus Student Network
- ESTIEM
- AGH UST IAESTE
- AGH UST Society of Petroleum Engineers
- Student Special Interest Groups of the Metallurgical Section
- Student Special Interest Groups of the Mining Section



## CULTURE

- "Con Fuoco" Choir and String Orchestra
- AGH UST Media Centre
  - AGH UST Student Newsletter
  - Student Radio 1.7
  - AGH UST Kraków Student Photo Agency
  - AGH UST MINE Film and television production studio
- AGH UST Representative Orchestra
- AGH UST Student Dance Club

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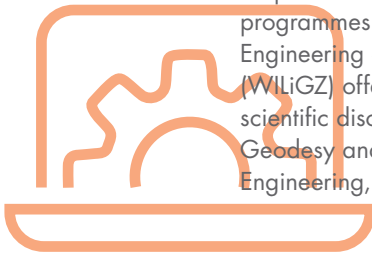
## OTHER

- Academic Section of the Polish Red Cross
- Independent Students' Union
- University Board of Students' Union
- University Board of Doctoral Students' Union
- Association of Disabled Students

# WILiGZ

## Faculty of Civil Engineering and Resource Management

As part of the AGH Doctoral School, doctoral programmes available at the Faculty of Civil Engineering and Resource Management (WILiGZ) offer education in the following scientific disciplines: Civil Engineering, Geodesy and Transport, Environmental Engineering, Mining and Energy.



**The Faculty conducts vital research in the fields of Geomechanics (numerical modelling), Geotechnics (research into physical and mechanical properties of rocks and soils) and Civil Engineering (applications of computed tomography). Specialized research areas include:**

- mineral processing and raw materials;
- climate change (investigation of gas sorption on materials by advanced gas sorption analyzer combined with high-pressure TGA);
- energy efficiency in ventilation and cooling systems.

By means of such research, we are able to deepen our knowledge of underground and opencast mining (including diagnostics of the technical condition of machines and devices) and the management and economics of production processes.

The Faculty has modern laboratory facilities and cooperates with companies which support applied research.

Almost 100 years ago, the Senate of the Mining Academy appointed the first Council of the Faculty of Metallurgical Engineering. Since then, the Faculty's name and research profile have changed several times, reflecting the evolution of the industry's needs and seeking to address new challenges in metals engineering. With the currently ongoing fourth industrial revolution, the Faculty is focused on Metals Engineering and Industrial Computer Science, aiming to create a unique link between the domains of advanced materials engineering and computer science.

# WIMiIP

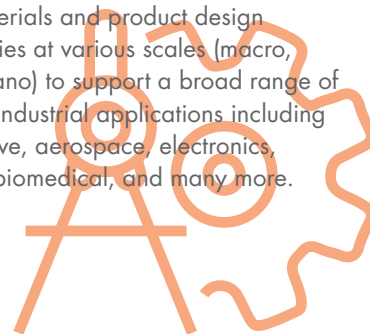
## Faculty of Metals Engineering and Industrial Computer Science

### Therefore, our current research concentrates on:

- the complete manufacturing and processing cycles of advanced metallic materials ranging from extractive metallurgy;
- 3D printing;
- metal forming;
- heat engineering;
- surface engineering;
- computer-aided process design;
- environmental protection to materials science;
- industrial computer science, including smart factories, machine learning and augmented / virtual realities.



The research activity undertaken by the Faculty identifies and explores new materials and product design possibilities at various scales (macro, micro, nano) to support a broad range of modern industrial applications including automotive, aerospace, electronics, energy, biomedical, and many more.



# WEAiiB

## Faculty of Electrical Engineering, Automatics, Computer Science and Biomedical Engineering

The areas of scientific activity at the Faculty of Electrical Engineering, Automatics, Computer Science and Biomedical Engineering (WEAiiB) fall under three scientific disciplines: Automation, Electronics, Electrical Engineering and Space Technologies, Biomedical Engineering, Information and Communication Technology.



### The scope of research covers the following areas:

- theory and computer control systems, biomedical signal analysis and vision systems, software and knowledge engineering, real-time systems, modeling and analysis of information systems, information systems in management;
- design of digital and analog integrated circuits, FPGA, optoelectronic systems, digital signal processing, ionizing particle detectors, study of micro and nanostructures in microelectronics, optoelectronics, spintronics and gas sensors;
- intelligent control of building devices, quality and efficiency of electrical energy, automatic electric drives, power electronics, electrothermal energy, electric traction;
- measurement, identification and diagnostics of electrical machines;
- design and analysis of power grids and systems, testing of high-voltage insulation systems;
- analysis of chaotic systems, analysis of the dynamics of nonlinear systems;
- modeling, simulation studies, design and construction of measurement systems;
- measurement of road traffic parameters, including weighing systems for vehicles in motion.



**The research activity undertaken by the Institute of Computer Science spans theory and practice and is primarily focused on:**

- computational selection theory;
- natural language processing;
- deep learning;
- computational and simulation methods;
- concurrent and distributed computing.



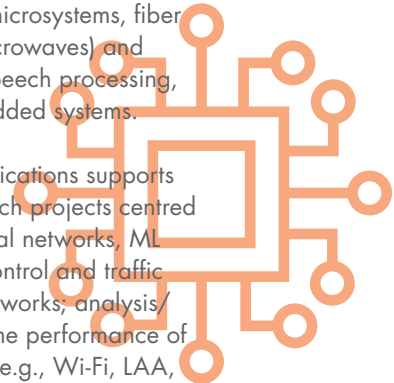
# WIEiT

## Faculty of Computer Science, Electronics and Telecommunications

These are just a few areas of interest explored using advanced and – in many cases – unique equipment, including laboratories for research into mobile systems, malware, multimedia etc.

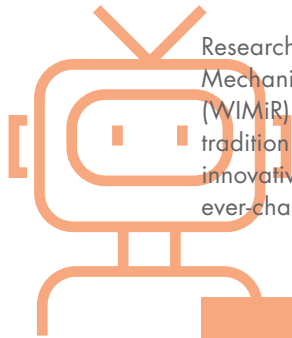
With its friendly, competent staff and modern, well-equipped laboratories, the Institute of Electronics is a great place to start your research career in the field. Our expertise ranges from physical layers (thin film technology, magnetic multilayers, spintronics) to circuits and systems (micro and nanoelectronics, detector microsystems, fiber optoelectronics, RF and microwaves) and advanced DSP including speech processing, computer vision and embedded systems.

The Institute of Telecommunications supports a host of fascinating research projects centred on: SDN, QoS, QoE, optical networks, ML algorithms of congestion control and traffic engineering, multi-layer networks, analysis/modeling/optimization of the performance of modern wireless networks (e.g., Wi-Fi, LAA, 5G, 6G), cybersecurity, V2X communications, Network management supported with ML: risk engineering (recovery, security, fault management, anomaly detection).



# WIMiR

## Faculty of Mechanical Engineering and Robotics



Research activity at the Faculty of Mechanical Engineering and Robotics (WIMiR) draws on nearly 70 years of tradition and experience combined with an innovative and inspiring approach to an ever-changing world and industry.

### Faculty members conduct research in over a dozen areas such as:

- machine engineering;
- machining;
- plastic working;
- mechanics;
- material strength and modern solutions for industry including mechatronics and robotics;
- automation of production processes and control systems.

Intelligent structures and materials are investigated together with techniques developed for structural health monitoring and non-destructive testing.

Ph.D. theses can be also pursued under research projects conducted in design of machines, drives and operating systems, durability and reliability of machines and devices, condition monitoring, numerical modelling and simulation, eco-energy, environmental protection, vibroacoustics and sound engineering. The most recent areas of enquiry include bioengineering and biomechanics, biomaterials, surgical robots, and rehabilitation devices.

Research programs offered by the Faculty are interdisciplinary and supported by extensive national and international cooperation with scientists representing various disciplines.



# WGGiOŚ

## Faculty of Geology, Geophysics and Environmental Protection

**The scientific and research activity pursued by the Faculty of Geology, Geophysics and Environmental Protection (WGGiOŚ) focuses on the development of cutting edge techniques and technologies in the fields of:**



- exploitation of deposits and geodynamic processes;
- economic geology: prospecting and evaluation of mineral deposits, energy resource management, oil and gas engineering;
- evaluation of geothermal energy resources;
- investigating the geological structure of the Earth's crust and interior;
- use of geological materials for the synthesis of hybrid materials with controlled properties in industrial and environmental applications;
- evaluation of the processing of mineral resources, evaluation of the environmental impact of mining activity;
- economic use of waste and its utilization in the construction industry;
- research into geochemistry and hydrogeochemistry of environmental components;
- application of geoinformatics in the assessment of geological hazards.


# WGGiLS

## Faculty of Geo-Data Science, Geodesy and Environmental Engineering

As the name implies, the research activities undertaken by the Faculty focus on two main domains: mine surveying and environmental engineering.

### The scope of research covers the following areas:

- applications of computer science for spatial data processing (GIS);
- the use of modern measurement techniques for the purpose of inventory and implementation of industrial, architectural and infrastructural objects, as well as radar interferometry;
- soil physics and chemistry;
- water protection;
- waste management;
- air protection;
- industrial metrology.



A host of studies are carried out on the use of remote sensing and photogrammetric techniques to monitor the natural environment, historical buildings, etc. Other areas of interest include research and analysis of threats occurring in areas transformed by industry, especially the mining industry.

The Soil Reclamation and Conservation Team is involved in field and laboratory experiments, analyses and evaluations related to soil transformation, reclamation and management of post-industrial wastelands, and hydrological and chemical transformations of soils in the vicinity of industrial plants. The Water Management and Protection Team conducts research work related to water protection, water and sewage management, surface and groundwater monitoring, application of blue-green infrastructure and nature-based solutions for sustainable water management, as well as safety assessment for water constructions.

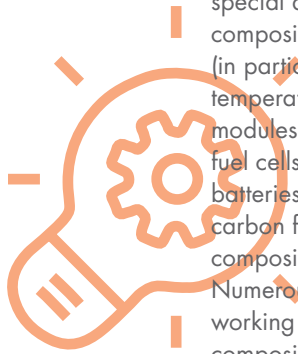
The Waste Management Team has four workstations equipped with specialized SimaPro software dedicated for modelling Life Cycle Assessment (LCA) as well as access to the professional Ecoinvent database. The Air Protection and Industrial Metrology Team conducts research into the evaluation of air pollutant emissions from combustion and co-incineration of solid fuels and waste, open burning of waste and plant residues, candles, incense and other emission sources.

**The Faculty of Materials Science and Ceramics (WIMiC) is the only faculty in Poland offering teaching and research activity focused on the technology of:**

- ceramics;
- glass;
- amorphous coatings;
- refractories;
- building materials;
- a variety of functional materials.

# WIMiC

## Faculty of Materials Science and Ceramics

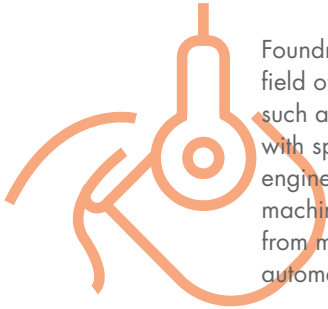


At WIMiC we are particularly interested in the development of advanced materials for special applications, which include ceramic composites and corrosion-resistant materials, (in particular multilayered materials for high-temperature applications), thermoelectric modules for energy conversion, solid oxide fuel cells, materials for electrochemical batteries, devices for hydrogen storage, carbon fibres, and carbon nanoforms and composites for technical applications. Numerous teams of researchers are also working on ceramic, polymer, metal and composite biomaterials to be used as implants for hard and soft tissues, scaffolds for tissue engineering, and drug delivery systems.



# WO

## Faculty of Foundry Engineering



Foundry engineering is an interdisciplinary field of knowledge combining basic sciences such as mathematics, physics and chemistry with specialist knowledge of materials engineering, metallurgy, mechanics and machine construction, and with contributions from modern control technologies, robotics, automation and computer science.



### The faculty offers research opportunities in the following areas:

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- high-grade cast iron and iron casting crystallization;
- examination of structures, properties and defects of castings and cast composites;
- high-technology materials and computer technology in foundry processes;
- numerical modelling, computer-aided calculations and technologies;
- thermodynamics;
- foundry machinery and equipment;
- die casting;
- foundry mechanisation;
- automation and robotic systems;
- strength analysis and casting design;
- environmental protection in foundries;
- 3D printing;
- electrochemistry, corrosion and spectroscopy;
- new steel grades, including in particular special grades with micro additions as well as others for special applications, designed to meet high quality requirements.

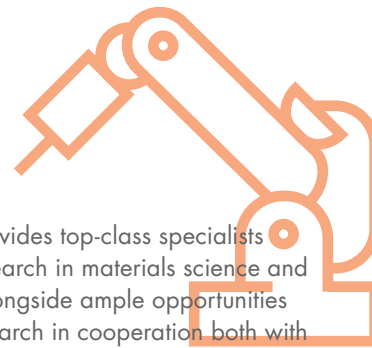
AGH Doctoral School students enrolled on doctoral programmes run by the Faculty of Non-Ferrous Metals (WMN) will gain broad and in-depth knowledge as well as an abundance of relevant experience in the field of materials science and engineering.

**Research projects pursued at WMN combine fundamental research covering:**

- thermodynamic and kinetic aspects of the synthesis of advanced materials with design and optimization of cutting-edge processes of production and plastic forming of metals and alloys;
- materials manufacturing and surface engineering;
- comprehensive and thorough examination of properties of materials.

# WMN

## Faculty of Non-Ferrous Metals



The Faculty provides top-class specialists involved in research in materials science and engineering alongside ample opportunities to conduct research in cooperation both with leading research and science centers around the world and with local industries specialising in the production and plastic forming of non-ferrous metals.



# WWNiG

## Faculty of Drilling, Oil and Gas

### **This Faculty undertakes research into a wide variety of topics including:**

- borehole design;
- optimisation of drilling technology parameters;
- development of mud and sealing slurries and trenchless techniques;
- mathematical modeling and computer simulation of natural gas and crude oil deposits and underground gas storage facilities;
- underground storage of CO<sub>2</sub> and hydrogen;
- gas transmission systems design;
- computer simulations of natural gas processing;
- analysis of energy systems.



The Faculty laboratories support research into: petrophysical parameters of reservoir rocks, composition and physicochemical properties of crude oil, natural gas and water, thermal conductivity of rocks and thermal resistance of bore exchangers, and drilling fluids and sealing slurries technologies.

The Faculty operates two laboratories that are unique in Poland. One is equipped with devices that enable the analysis of capillary pressures, wettability and phase permeability as well as conducting research on oil displacement. The other one is equipped with equipment for petrophysical analyses of low permeable rocks, studies of sorption / desorption processes, and in-situ real-time qualitative and quantitative monitoring of natural gas with Raman spectroscopy.





The AGH UST Faculty of Management (WZ) is involved in studies in three main disciplines: Management, Information Technology and Econometrics, and Management and Production Engineering. In order to enhance its research capabilities, the Faculty has recently set up the 3D MakerBot

# WZ

## Faculty of Management

Engineering Innovation Lab., as well as the Marketing Laboratory which features state of the art eye-tracking equipment. Additionally, plans for launching new laboratories, i.e. Bloomberg and Big Data, are already well under way. The Faculty has also organised regular international scientific conferences.

### Research themes explored by Faculty staff include:

- intellectual capital;
- new business competencies in the digital economy;
- information security;
- risk analysis in economic activity;
- optimization in decision making;
- computer-supported decision-making in management;
- data processing and visualisation;
- the circular economy;
- commodity markets;
- renewable sources of energy;
- economic forecasting;
- multicriteria optimisation and computational intelligence methods in production management;
- quantitative methods in economics, finance and management;
- econometric analysis of financial markets;
- methods of business valuation;
- business creation and bankruptcy procedures;
- input-output methods;
- theories of economic growth.

# WEiP

## Faculty of Energy and Fuels



The Faculty of Energy and Fuels (WEiP) provides doctoral students with world-class research opportunities in fuel and energy technologies.

Doctoral students may pursue their PhD theses in a number of research areas focusing on core, technological and industrial issues in environmental engineering, mining and energy, chemical engineering and materials engineering.



### Research programmes concentrate on current issues in:

- sustainable energy development;
- theory and modeling in the energy sector;
- research into the development of a new generation of thermal and flow machines;
- studies of (broadly-understood) hydrogen and nuclear energy;
- e-mobility;
- development of modern fuel technologies and environmental protection and monitoring.

This research work is carried out in close and effective international cooperation with the world's leading centres, as well as in partnership with domestic research units and the immediate socio-economic environment.



# WFiS

## Faculty of Physics and Applied Computer Science

The Faculty of Physics and Applied Computer Science (WFiS) offers several research themes for the AGH UST Doctoral School within the physics discipline of the natural sciences. Students of the AGH UST Doctoral School will undertake world-class research activity in both computational (theoretical) and experimental (practical) dimensions, often entering the area of industrial implementations.

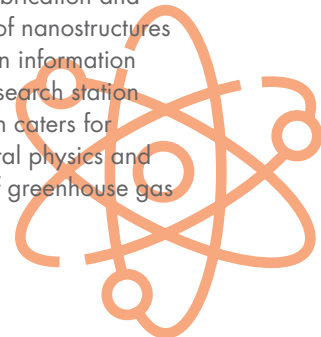
### The themes offered for AGH UST doctoral school candidates, relating to core and applied research in:

- nuclear physics;
- environmental physics;
- medical physics;
- solid state physics;

are conducted in cooperation with foreign universities and research centres such as CERN in Switzerland.



PhD students will pursue their research projects using the Faculty's extensive technological facilities, most notably the Surface Nanostructures Laboratory, which is dedicated to the fabrication and comprehensive description of nanostructures with potential applications in information storage and the KASLAB research station on Kasprowy Wierch, which caters for PhD students of environmental physics and carries out measurements of greenhouse gas concentrations.



# WMS

## Faculty of Applied Mathematics

**The Faculty of Applied Mathematics (WMS) employs over 25 active senior researchers who are involved in high-level research in a wide range of areas with particular emphasis on:**

- computational mathematics;
- differential geometry;
- discrete mathematics;
- dynamical systems;
- financial mathematics;
- functional analysis;
- nonlinear differential equations;
- operator theory, statistics;
- stochastic analysis.



The Faculty is well-known for courses of study which provide a balanced combination of pure and applied mathematics and its applications in the educational offer. According to statistics published by the AGH UST Career Centre, this results in a 100% employment rate among Faculty graduates. For PhD students, the Faculty of Applied Mathematics offers a wide range of courses delivered in English as well as multiple opportunities for creative self-expression within the most exciting research directions. All of this is possible thanks to the ongoing cooperation which the Faculty has successfully fostered with many reputable research centres all over the world.





The Faculty of Humanities (WH) offers research themes in the science – technology – society (STS) framework for the AGH Doctoral School.

The Faculty of Humanities encourages students of the AGH Doctoral School to strive for excellence in research into to develop exceptional important issues regarding the place of technology in social and cultural reality. Contemporary societies have seen multiple discussions at the intersection of the interrelated domains of technology and society.

### **Such discourse can be often contradictory:**

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- it tends to stress the positive impact of science and technology on contemporary societies and cultures;
- technology and science are seen as the source of considerable moral panic and anxiety.

The Programme implements the mission of the AGH University of Science and Technology and is a sign of the gradually increasing role of humanities in exploring and understanding the domains of developing applied sciences and their achievements.

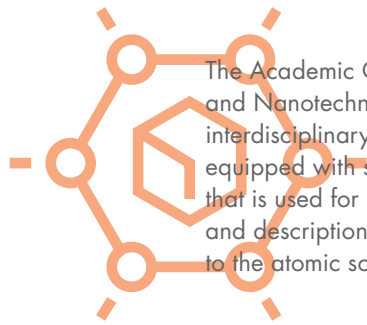
# WH

## Faculty of Humanities



# ACMiN

## Academic Centre for Materials and Nanotechnology



The Academic Centre for Materials and Nanotechnology (ACMiN) is an interdisciplinary research unit of AGH UST equipped with state-of-the-art infrastructure that is used for modelling, manufacturing and description of materials from the macro to the atomic scale.



**Scientists conduct studies in synthesis and applications of nanomaterials in photoelectrochemistry, magnetism and biomedical engineering, with particular emphasis on phenomena such as:**

- light absorption in semiconductors;
- kinetics of electrochemical and photoelectrochemical processes;
- self-organization of nanoparticles;
- magnetism in low-dimensional systems;
- spintronics.

Applied research is focused on the design and mechanical testing of new intermetallic materials such as shape-memory alloys, high-endurance light alloys, and metallic glasses. Theoretical studies are focused on systems with strongly correlated electrons: graphene and high temperature superconductors.

# How to become a PhD student

## Step I

Register using the e-Rekrutacja system at <https://rekrutacja.doktoranci.agh.edu.pl>

## Step II

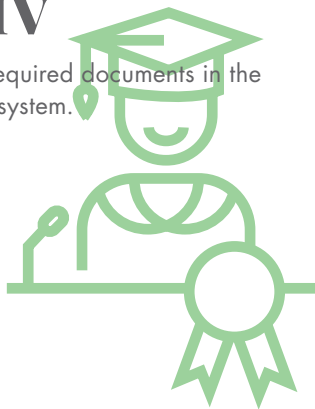
Choose a field of study. A list of programmes is available at: <https://rekrutacja.doktoranci.agh.edu.pl/ZagadnieniaBadawcze/>

## Step III

Pay the registration fee.

## Step IV

Upload the required documents in the e-Rekrutacja system.



## Step V

Pass the language examination or upload a language certificate that qualifies you for exemption.

Pass the entrance examination within the scope of the leading discipline.

## Step VI

Once admitted to the AGH Doctoral School, submit the originals of the required documents.

### Necessary documents

- higher education diploma with legalization or apostille
- official transcript of records with a scale of grades
- CV in English
- written scientific supervision consent of the prospective supervisor
- list of achievements with supporting documents

# AGH Doctoral School

**The AGH Doctoral School offers education in all 17 disciplines in which the AGH University of Science and Technology is entitled to award doctorates.**

Studies at the AGH Doctoral School provide a creative and inter-disciplinary approach to scientific research as well as flexible programmes, allowing every candidate to select courses best suited to their needs and preferences.

The School runs full-time doctoral programmes lasting between six and eight semesters, which support students in writing their doctoral theses. The process is founded on two components:

- individual programme of study
- individual research plan.

We see education at the AGH Doctoral School as an extremely important element on the path to the development of research staff. We offer doctoral programmes in Polish and English.

## Choice of courses offered:

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### ENGINEERING AND TECHNOLOGY

- **Automation, Electronics, Electrical Engineering and Space Technologies**
  - Faculty of Electrical Engineering, Automatics, Computer Science and Biomedical Engineering
  - Faculty of Computer Science, Electronics and Telecommunications
  - Faculty of Mechanical Engineering and Robotics
- **Information and Communication Technology**
  - Faculty of Electrical Engineering, Automatics, Computer Science and Biomedical Engineering
  - Faculty of Computer Science, Electronics and Telecommunications
  - Faculty of Physics and Applied Computer Science
  - Faculty of Metals Engineering and Industrial Computer Science
  - Faculty of Management
- **Biomedical Engineering**
  - Faculty of Electrical Engineering, Automatics, Computer Science and Biomedical Engineering
  - Faculty of Mechanical Engineering and Robotics
  - Faculty of Physics and Applied Computer Science
  - Faculty of Materials Science and Ceramics



- **Chemical Engineering**

- Faculty of Materials Science and Ceramics
- Faculty of Energy and Fuels

- **Civil Engineering, Geodesy and Transport**

- Faculty of Civil Engineering and Resource Management
- Faculty of Geo-Data Science, Geodesy and Environmental Engineering

- **Materials Engineering**

- Faculty of Materials Science and Ceramics
- Faculty of Energy and Fuels
- Faculty of Metals Engineering and Industrial Computer Science
- Faculty of Non-Ferrous Metals
- Faculty of Foundry Engineering
- Academic Centre for Materials and Nanotechnology

- **Mechanical Engineering**

- Faculty of Mechanical Engineering and Robotics
- Faculty of Metals Engineering and Industrial Computer Science
- Faculty of Management

- **Environmental Engineering, Mining and Energy**

- Faculty of Metals Engineering and Industrial Computer Science
- Faculty of Civil Engineering and Resource Management
- Faculty of Geology, Geophysics and Environmental Protection
- Faculty of Geo-Data Science, Geodesy and Environmental Engineering
- Faculty of Drilling, Oil and Gas
- Faculty of Energy and Fuels

## **NATURAL SCIENCES**

- **Computer and Information Sciences**

- Faculty of Computer Science, Electronics and Telecommunications

- **Mathematics**

- Faculty of Applied Mathematics

- **Chemical Sciences**

- Faculty of Materials Science and Ceramics
- Academic Centre for Materials and Nanotechnology

- **Physical Sciences**

- Faculty of Physics and Applied Computer Science
- Academic Centre for Materials and Nanotechnology

- **Earth and Related Environmental Sciences**

- Faculty of Geology, Geophysics and Environmental Protection
- 

## **SOCIAL SCIENCES**

- **Management and Quality Studies**

- Faculty of Management

- **Sociology**

- Faculty of Humanities

- **Economics and Finance**

- Faculty of Management
- 

## **HUMANITIES**

- **Culture and Religion Studies**

- Faculty of Humanities

# Scholarships

## Doctoral Scholarships Funded by State Subsidies

**In principle, every doctoral student attending a doctoral school receives a doctoral scholarship.**

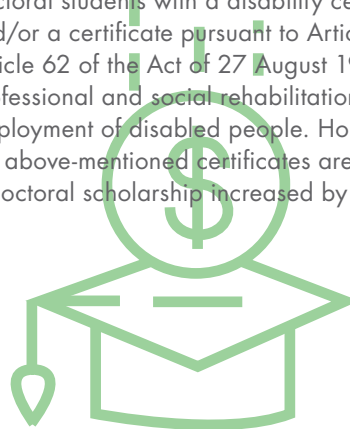
Scholarships are awarded to doctoral students who do not hold a doctoral degree in another discipline. However, a person employed at the university as a research assistant or a researcher will not receive a scholarship unless the employment concerns participation in a research grant. This limitation applies only until a positive interim evaluation is achieved, after which it is possible for a person working as a research assistant to apply for a scholarship. However, the funds granted in such a case will not amount to more than 40% of the normal monthly scholarship amount.

### LEVELS OF DOCTORAL SCHOLARSHIP PAYMENT

**The minimum doctoral scholarship payment is (gross):**

- 37% of a professor's remuneration – up to the month in which the interim evaluation is carried out, i.e. PLN 2,371.7;
- 57% of a professor's remuneration – after the month in which the interim evaluation is carried out, i.e. PLN 3,653.7.

Higher doctoral scholarships are granted to doctoral students with a disability certificate and/or a certificate pursuant to Article 5 and Article 62 of the Act of 27 August 1997 on professional and social rehabilitation and employment of disabled people. Holders of the above-mentioned certificates are entitled to a doctoral scholarship increased by 30%.





## **Doctoral Scholarships Funded from the STER Programme of Internalisation of Doctoral Schools**

**The Polish National Agency for Academic Exchange (NAWA) has announced the results of its call for applications for the STER Programme of Internalisation of Doctoral Schools.**

AGH UST is one of ten universities to have received funding. The award of PLN 1 980 000 will enable the AGH Doctoral School to further foster actions aimed at, among other things, recruiting more foreign doctoral students and supervisors, awarding grants for PhD students pursuing projects through international cooperation, and organising foreign placements and visits.

In order to win more foreign PhD students, AGH UST will design informational materials promoting the AGH Doctoral School abroad. They will be published in social media and during international webinars and also distributed at fairs, meetings and conferences held in Poland and abroad.

The best PhD students from abroad will be able to apply for scholarships awarded independently of doctoral scholarships provided for under Art. 209 of the Polish Higher Education and Science Act. There are plans to fund a total of 18 12-month scholarships over a period of three years. The scholarships will be awarded as an addition to the doctoral scholarships funded under the subsidy. Persons eligible to apply for the scholarships will be international students at the AGH Doctoral School.

# Legalisation of stay in Poland



Apart from the law on entering the territory of Poland, as a foreigner, you are subject to certain laws that regulate your stay in the country during your studies. Polish law stipulates different requirements for EU/EFTA and non-EU/EFTA citizens with regard to legalisation of stay.



## Legalisation of stay – EU/EFTA nationals

### RESIDENCE UP TO 3 MONTHS

Citizens of European Union can enter Poland and stay within its territory for up to 3 months on the basis of valid travel document (passport) or another valid document confirming their identity and citizenship.

### OVER 3 MONTHS

An application form for the registration of residence should be submitted in person to the voivode having jurisdiction over the person's place of residence – the **Małopolska Provincial Office in Kraków** – no later than on the next day following the end of the period of 3 months after the entry into the territory of Poland.

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### *Małopolska Provincial Office in Kraków*

*Department for Foreigners  
31-547 Kraków, ul. Przy Rondzie 6  
helpline: 12 210 20 20  
e-mail: info.opt@muw.pl*

# Legalisation of stay – non-EU/EFTA nationals

## ENTERING THE TERRITORY OF POLAND

Citizens of non-EU countries may enter Poland and stay within its territory on a basis of a Schengen or national visa. This visa is issued by a consul.

- **Schengen Visa (marked with C symbol)** – is issued when the planned stay on the territory of the Schengen area does not exceed 90 days within each 180-day period.
- **National visa (marked with D symbol)** – entitles the holder to entry and a continuous stay in the territory of Poland or to several consecutive stays whose total length is in excess of 90 days. A national visa may be valid for a minimum of 1 year.

## TEMPORARY RESIDENCE PERMIT

Applications for a temporary residence permit must be submitted in person, no later than on the last day of legal residence in Poland, to the voivode having jurisdiction over the place of residence, the **Małopolska Provincial Office in Kraków**.



## APPLICATION FORM

Please remember that you have to complete an Application Form and submit all necessary documents to the Małopolska Provincial Office in Kraków (see: [www.malopolska.uw.gov.pl](http://www.malopolska.uw.gov.pl)).

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## FINANCIAL SECURITY

You need to possess sufficient funds to cover the cost of living in the Republic of Poland, the cost of return to your home country, and documents confirming your financial means.

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## INSURANCE

You need to hold valid health Insurance!

### Please remember that:

- It is one of your responsibilities as an international student to make sure that you have a valid insurance during your entire stay at AGH UST.
- You will be responsible for covering all insurance costs.

# Contact us

## Want to find out more? Contact us!

We will be pleased to answer all your questions and support you in every issue concerning studies at our University:

[www.sd.agh.edu.pl/en/doktoranci/  
doctoral-schools/agh-doctoral-school](http://www.sd.agh.edu.pl/en/doktoranci/doctoral-schools/agh-doctoral-school)

### Regular studies

phone: +48 12 617 56 11  
+48 12 617 56 13  
+48 12 617 56 14

e-mail: [phd@agh.edu.pl](mailto:phd@agh.edu.pl)

### Main office

AGH Doctoral School  
building A-3, room No. 118  
30 Mickiewiczza Ave.  
30-059 Kraków  
Poland

