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You are looking at a guidebook to one the best technical universities in Poland – the AGH University of Science and Technology in Krakow. Future solutions, excellent teachers, and professionalism that distinguishes our graduates are the reasons why the AGH UST brand is recognisable all over the world. We constantly set ourselves new aims by conducting research which is crucial for the development of a modern economy, and also by means of numerous investments.

In the era of a dynamic technological development, innovativeness is our priority. The AGH University of Science and Technology is a leader among Polish schools of higher education with regard to the number of patent applications in the European Patent Office. Moreover, our potential has been confirmed by the first place in the category “innovativeness” in the Ranking of Universities organised by “Perspektywy”.

Thanks to conducting research at a high, world level, the knowledge received at AGH UST unique. This important aspect is emphasized by our graduates, who on many occasions refer to their “masters”. Modern educational facilities and laboratories, a unique campus, and the city of Krakow – they all create conditions where everyone can find a place for their time of study, as well as for the rest of their life.

It is my sincere hope that you will find this guidebook interesting, and that it will become an inspiration for many fascinating actions and activities.

Professor Tadeusz Słomka
Rector of the AGH University of Science and Technology in Krakow
The AGH University of Science and Technology in Krakow is a modern state university of national reach, which develops collaboration with colleges and universities from Europe and all over the world. The AGH University of Science and Technology is a technical university where exact sciences are strongly represented, and at the same time they constitute basis for the development of a maximum spectrum of applied sciences and the gradually increasing role of humanities. In line with global trends, we create new branches of study, but at the same time we keep the conventional ones, which are indispensable for a proper development of science, technology and economy of our country.
The history of the AGH University of Science and Technology in Krakow dates back to 1912, when a group of outstanding engineers and mining activists, led by Jan Zarański, initiated the process of applying for a consent to establish a school of higher education that would educate mining engineers in Krakow. The endeavours were successful, and in 1913 the Ministry of Public Work in Vienna appointed the Organizing Committee of the Mining Academy, chaired by Professor Józef Morozewicz. By force of a Supreme Order issued by Emperor Francis Joseph on 31st May, 1913, the establishment of the Mining Academy in Krakow was approved. The outbreak of World War I prevented the Academy from beginning its activity in 1914.

When Poland regained its independence in 1918, the Organising Committee recommenced its work, and on 8th April, 1919, the Polish Government brought the Mining Academy into being. The first professors were nominated on 1st May, 1919. On 20th October, 1919, Józef Piłsudski, Head of the State, inaugurated the Mining Academy in the main hall of the Jagiellonian University. On 15th June, 1923, the cornerstone for the future university building was laid. Two years later, the project of the Academy emblem (to be seen in the AGH UST History Museum) signed B.T. – Bogdan Treter – was created; it is believed that the emblem was approved by the General Assembly of Professors. Soon, the Academy reached a very high educational standard, and became one of the best European mining schools. Since its early days, the university has collaborated closely with industry, and retained close links with the Polish economy.

The outbreak of World War II stopped the development of the Academy. Professors of the Mining Academy were arrested by the Gestapo during
“Sonderaktion Krakau”. The science and research elite was deported to the Nazi Germany's concentration camps in Sachsenhausen-Oranienburg and Dachau. Between 1939 and 1945, the main Academy building was occupied by the German General Government. The property of the Academy was completely devastated and plundered, and the sculpture of St Barbara was broken by an act of throwing it from the roof of the main building. Thanks to the dedication of the staff, part of the library was saved. The Academy started to act in conspiracy, and the authorities tried to regain or create provisional teaching facilities.

Contemporary history

At the beginning of 1945, the Mining Academy was the only technical university in Poland which was able to operate. It became a support centre for other technical universities in Poland. Cracow University of Technology came into being within the walls of the Academy; it acted under the name of the Polytechnic Faculties of the Mining Academy until 1954. The Academy also played a major role in the establishment of the Silesian University of Technology (23 Mining Academy graduates were professors there), and Częstochowa University of Technology, and it also contributed to the reconstruction of Warsaw University of Technology, and the organisation of Wrocław University of Technology and Gdańsk University of Technology. In 1947, an internal decision was made to rename the university the Academy of Mining and Metallurgy. However, a formal approval of the decision by superior authorities took place only in 1949. In 1969, Stanisław Staszic was chosen the patron statesman of the Academy. At the same time, the university received its standard.

On 14th December, 1981, the AGH UST academic community, under the flag of "Solidarność", had courage to protest against suppressing – by an act of imposing Martial Law – the retrieved feeling of freedom and solidarity. The Independent Self-Governing Trade Union "Solidarność" at AGH UST was a student organisation, the only one in Krakow, and one of only three in Poland, which organised sit-down strikes in the first days of Martial Law. In 1999, the sculpture of St Barbara was returned to the roof of the main university building A-0.

"The university, being a technical school, serves science, industry and society through educating students, the development of academic staff, and conducted research. The university cherishes its traditions and educates students to be honest and responsible people both at work and as the members of the society, according to its motto:

Labore creata, labori et scientiae servio
(Created in labour, I serve labour and science)."

From the Statute of the AGH University of Science and Technology in Krakow
We go beyond the boundaries of knowledge
Alongside traditional faculties closely connected with mining and metallurgy, the university also has faculties whose research activity is connected not only with the conventional branches of industry or natural and technical sciences, but also with the branches of science which are fundamental for the development of modern economies, such as new materials, renewable sources of energy, biomedical engineering, and information technologies.

We teach at the highest level
The quality of education at AGH UST is confirmed by a high classification of AGH UST units in the parametric evaluation conducted by the Ministry of Science and Higher Education, distinctions for fields of study awarded by the Polish Accreditation Committee, or the first in history European accreditation of the study field of Materials Engineering.

We are a patent giant
The university is a creative place. This fact is confirmed by annual reports published by the Polish Patent Office, where we are in the lead among institutions submitting the largest number of inventions and utility models. Every year, we obtain over 100 patents and sell several dozen licences. Our activity is also noticeable on the European arena. AGH UST is a leader among Polish schools of higher education with regard to the number of patent applications in the European Patent Office.

We accomplish multi-directional collaboration
Scientific research, fields of study taking into account the needs of the labour market, scholarships, practical trainings, regular meetings with employers, and a smooth flow of students and graduates to the labour market are the key elements of collaboration between AGH UST and foreign universities, science institutions, industrial enterprises and companies which are crucial for the country’s economy.

Our university campus is unique
The AGH UST campus is located in the centre of the most beautiful Polish city – Krakow. Modern teaching and research facilities with laboratories equipped with unique apparatus, comfortable conditions, numerous improvements for people with disabilities, and the largest campus in Poland – these are only some of its many assets.
For years, the AGH University of Science and Technology has been at the top of university rankings.
AGH UST IN RANKINGS

Ranking of Universities “Perspektywy 2014”

In the most prestigious Ranking of Polish Universities “Perspektywy 2014”, AGH UST came third among technical universities. The evaluation was based on 33 detailed criteria which created six main categories, among which there were: prestige, scientific potential, research efficiency, innovativeness, studying conditions, and internationalisation. A significant success is the first place in the category “innovativeness”. In this group, the following criteria were evaluated: university innovative facilities, patents and protection rights, funds gained from the European Union, sold licences, and spin-off and spin-out businesses operating within the structure of the university.

“Forge of Chairmen”

Another important ranking is the “Forge of Chairmen”, in which AGH UST holds the second place in Poland. Surveys confirm that among 493 chairmen of the largest companies operating in Poland, 8.11% are AGH UST graduates. It is worth mentioning that our university has been placed among the leaders of the ranking for the sixth time in a row.

Ranking “Webometrics”

A wonderful success of the university is also the first place among Polish technical universities in the ranking “Webometrics” (July 2014), which encompasses nearly 12,000 schools of higher education from all over the world. In the prestigious circle of 500 schools of higher education whose activity is the most noticeable on the Internet, there were only four Polish universities.
AGH UST GRADUATES ON THE LABOUR MARKET

The university educates engineers, thus providing staff for the Polish economy. The education and qualifications that can be obtained at the university are highly appreciated by employers both in Poland and abroad. Spectacular professional careers of many AGH UST graduates confirm the quality and usefulness of knowledge gained at the university.

Adaptation of the education programme to the needs of the economy

As soon as in the interwar period, the needs of the labour market had a direct influence on the scope and programme of education. However, in the last twenty years, the factor of securing employment has started to play a particularly important role, as a university diploma is not always a guarantee of finding a job. The degree of competitiveness of graduates on the labour market therefore becomes a natural verification of the system of education. An indispensable element of its effectiveness is the forecasting ability and a flexible form of programmes of study which takes into account three elements: the profile and scope of education, the level of knowledge and students’ expectations, and employers’ demands.

The AGH University of Science and Technology has worked out and initiated a system which allows to adjust the educational programme to the actual needs of the economy while maintaining professional standards, and is a resultant of organisational, educational, market, and economic structures.

The university hosts an assembly composed of the representatives of universities and several dozen key enterprises. Within the framework of the structures mentioned above, it is planned to create new fields of study and specializations, as well as to make changes or modifications to the existing programmes of study, while the collaboration agreements between AGH UST and enterprises ensure a smooth flow of students and graduates to the labour market (funded scholarships, practical trainings, internships, work placements). Regular meetings with the representatives of industry have become a tradition; they serve to exchange information and suggestions, as well as to verify the educational process in relation to the contemporary needs of employers.

88% of AGH UST graduates, class of 2013, obtained employment in line with education
Among the graduates of the university there are chairmen and presidents of the largest industrial enterprises and the most important Polish companies, public figures (ministers, voivodes, presidents of cities), as well as world-known artists.
Soundings and surveys among employers

The university also takes soundings, as well as runs quality and quantity checks on employment prospects in the context of the most required professional qualifications, the knowledge of foreign languages, and other skills appearing on the demand list. In the 2013 survey, the questionnaire was answered by 124 employers from all over Poland, and the selection of companies represented all specializations and fields of study at AGH UST. For employers, the main criterion for offering a job to AGH UST graduates of technical and exact sciences is the completed field of study (81.8%) and professional skills (74.7%). The other factors are the knowledge of foreign languages and motivation for work. Within the framework of the surveys, it was attempted to find out how much an AGH UST graduate’s work experience – seventh on the list, i.e. lower than expected – can influence the chance of finding a job. The most highly appreciated is employment in line with obtained qualifications (not necessarily full-time), as well as internships, practical trainings and student projects being part of the AGH UST education programme. In the recruitment process of graduates of technical universities, the employers broaden the list of expectations, and the candidate’s required profile is a resultant of the enumerated requirements. The surveys also took into account the recruitment plans of companies up to the year 2016, which encompass the employment of AGH UST graduates representing all fields of study.

Monitoring the professional careers of AGH UST graduates

Another method of evaluating and verifying the programme of education with respect to market demands is monitoring the professional careers of university graduates. Monitoring the professional careers of the graduates of the AGH University of Science and Technology was conducted already in the 1990s, but it did not encompass all university faculties. In 2008, the university began standardizing the process of monitoring professional careers of full-time undergraduate and postgraduate students. The AGH University of Science and Technology, as one of very few universities in Poland, has accepted a policy that the time interval counted from the moment of finishing studies to completing the questionnaires by the graduates does not exceed six months (at other universities, the survey is conducted one year or several years after completing studies.) This relatively short time aims at a thorough diagnosis of the graduates’ employment situation in relation to the education received at the university not long after leaving it. The number of surveyed individuals is also very high – every year the survey is participated in by ca. 80% of all graduates of full-time postgraduate studies, which translates into the reliability of the results.

AGH UST students usually concentrate on looking for a full-time job when they are still at the final year of their programme of study: a job which is in line with their education, satisfying and well-paid (44.4% graduates of class of 2013 took up employment before completing their studies). The results of monitoring professional careers of AGH UST graduates in the last six years prove that they belong to privileged professional groups, and their position is stable, regardless of the changing economic situation of the market.

AGH UST graduates who were professionally active (employees, individuals running their own business, and those who continued their education) in a short time after completing their course of study constituted between 81.1% and 88.4% of the surveyed population.

The percentage of graduates who were seeking employment, depending on the year of the survey, was between 10.4% and 17.7%. Despite a relatively high rate of employment, the university does not neglect the group of unemployed graduates. A thorough analysis of the reasons is carried on, and subsequent comprehensive and individually-tailored supportive steps are taken.

In the employers’ opinion, flexibility and adaptation to changes is more possible if the base of a candidate for a job, i.e. their starting knowledge, is more solid.
Among the employed graduates of class of 2013, 88% took up employment in line with education, which confirms that the programme and scope of education at AGH UST is well-adjusted to the needs of the labour market. The position of a graduate is also determined by the form of employment. Among the working graduates, a contract of employment was signed by 74.2% of the respondents, 4.8% conducted their own business activity (self-employment), and 19% were offered work on the basis of civil-law agreements. Graduates who did not have a formal contract of employment, in the section "employment status" were classified as people who were still looking for a job.

Among the employed AGH UST graduates, 27.4% did not look for a job at all, since it was employers who offered them a job contract, and for 54.6% the time of seeking employment did not exceed three months. The analysis shows that while choosing a place of work or a position in a company, the most important aspect for 63.6% of AGH UST graduates is the opportunity for professional development; this marks high ambitions of AGH UST graduates, and additionally, determines them to look for a job in line with received education. The salary came only third (after the stability of employment) at 48.5%, while 11.0% of the working respondents were offered salaries of gross income above PLN 5,000 per month.

66.3% of the respondents took up employment in the Małopolska region, of which 51.9% in Krakow, while 30.2% found employment in all the other regions of Poland.

3.3% of the university graduates obtained employment abroad – all of them in line with the completed field of study.

Both for employers and graduates, a legitimate quality is the prestige and reputation of the university. In the Western countries, it is a natural approach. In the first place, companies recruit graduates from universities of a well-proven track record, and also in Poland, a university's reputation is steadily growing in importance. For 75% of employers, graduating from AGH UST is a candidate's additional asset, and 23.4% have no views in this matter.

For 80% of the university graduates, the decision to study at AGH UST was a good one; it is also a personal satisfaction and pride following from the fact of holding an AGH UST diploma, which leads to a positive self-evaluation, and a feeling of security on the labour market. Undoubtedly, for an AGH UST graduate the starting capital and the necessary condition for the accomplishment of professional ambitions is knowledge, the completed field of study, as well as the level and scope of education that keeps up with the demands of the labour market, which has been proved by the conducted research and published rankings.

Results of monitoring the professional careers of AGH UST graduates, class of 2013

The conducted analysis confirms that the position of an AGH UST graduate on the labour market is stable, and creates a high probability of employment, and in consequence, a good chance for adequate professional development. It is a result of the consistent realization of the university's educational policy and the programme of education based on the actual needs of the economy.
EDUCATION AT THE HIGHEST LEVEL

The university educates nearly 37,000 students. The educational offer encompasses 57 fields of study, including 200 specialisations, which are offered by 16 faculties. The university also offers doctoral studies in 23 scientific disciplines, and over 90 postgraduate programmes.

Our main assets are:
- huge scientific potential,
- recognition by employers,
- close links with industry and business world,
- possibility to do practical trainings and internships,
- modern teaching and research facilities,
- good social conditions,
- possibilities to develop interests (special interest groups, student organisations, Academic Sports Association),
- university campus with the largest student accommodation area in Poland.

AGH UST offers unique, often interdisciplinary studies which can be tailored to individual needs. Every year, the university launches new fields of study whose programmes take into account the needs of the labour market, which arise from the economic transformations and the demand for highly-qualified specialists. A high demand for engineers is a reason why the university graduates are often competed for by employers who offer them excellent conditions of employment. Our graduates are recognised as professionals both in Poland and around the world.

Some faculties at the university are unique in Poland, i.e. the Faculty of Materials Science and Ceramics, the Faculty of Non-Ferrous Metals, the Faculty of Drilling, Oil and Gas, and also the only in Europe Faculty of Foundry Engineering; all of them help students gain expert, engineering knowledge, and educate professionals in their selected, specialist fields and branches of science.

In line with the mission of the university, we place a lot of emphasis on the quality of education by taking steps in many different directions. One of the elements of the AGH UST employees’ appraisal system are questionnaires.
completed by students. All activities which aim at maintaining high standards of the educational process are coordinated by the University Board for Quality of Education. An excellent evaluation of the educational activity of the university is reflected in the reports of the Polish Accreditation Committee.

It is worth emphasizing that in the course of the recent years all fields of study at AGH UST have received positive evaluation of the Polish Accreditation Committee, and some have also been distinguished. Additionally, all AGH UST faculties have been awarded top scores in the parametric evaluation of research units conducted by the Ministry of Science and Higher Education. The highest grade – category “A+” – was awarded to the Faculty of Physics and Applied Computer Science.

Receiving education at the highest level which is recognisable all over the world is possible thanks to:
- intensive learning of foreign languages,
- integrated studies with double diplomas (of AGH UST and a foreign university),
- possibility to do practical trainings and internships abroad,
- tailored programmes of studies,
- constantly modernised methods and content of education (for example, distance education),
- well-developed teaching and social facilities,
- possibility to gain teaching qualifications.

Students are supported by learning materials available on the portal Open AGH UST (the first in Poland university repository of Open Educational Resources, understood as learning materials which are made available freely, without any charges, and with a right of further distribution), and the portal Open AGH UST e-Textbooks. Open AGH UST is an innovative project whose innovativeness lies in the fact of developing standards for creating open academic e-textbooks in accordance with the National Qualifications Framework. Open AGH UST does not just mean e-learning courses, but it means high quality, open, digital academic textbooks adapted to the AGH UST educational offer.

Educational offer in English
Caring about the competitiveness of our offer on the international educational market we develop teaching in foreign languages.

Currently, education in English is offered at 17 fields of study (bachelor’s degree and master’s degree). Moreover, the university hosts the University Base of Courses in Foreign Languages.

The base encompasses over 100 courses, which are available to all AGH UST students each semester. Students can agree with the Deans of their faculties to include the courses in their plans of study. The programme is also intended as an educational offer for all students coming to AGH UST within the framework of international exchanges programmes.

Bachelor’s degree
- Electronics and Telecommunications
- Mechatronics

Master’s degree
- Applied Computer Science: Computer Methods in Science and Technology
- Biomedical Engineering: Emerging Health Care Technologies
- Chemical Technology: Clean Fossil and Alternative Fuels Energy
- Chemical Technology: Sustainable Fuels Economy
- Electrical Engineering: Smart Grids Technology Platform
- Electronics and Telecommunications: Network and Services
- Electronics and Telecommunications: Sensors and Microsystems
- Electronics and Telecommunications: Computer Network Equipment and Systems
- Energy Technology: Sustainable Energy Development
- Geophysics: Applied Geophysics
- Materials Engineering: Functional Materials
- Mechatronics: Mechatronic Design
- Mining and Geology: Economic Geology
- Mining and Geology: Mining Engineering
- Virtotechnology: Virtualization of Foundry Engineering
The AGH University of Science and Technology offers studies at three levels (cycles) of education:

- **bachelor's degree** (6–7 semesters),
- **master's degree** (3–4 semesters),
- **doctoral studies** – prepares students to teach and conduct independent research, and leads to awarding a doctor's degree.
Educational offer in Polish

Faculty of Mining and Geoengineering
Civil Engineering
Mining and Geology
Environmental Engineering
Management and Production Engineering

Faculty of Metals Engineering and Industrial Computer Science
Education in Technology and Computer Science
Heat Engineering
Materials Engineering
Computational Engineering
Applied Computer Science
Metallurgy

Faculty of Electrical Engineering, Automatics, Computer Science and Biomedical Engineering
Automatic Control and Robotics
Electrical Engineering
Computer Science
Biomedical Engineering
Microelectronics in Industry and Medicine

Faculty of Computer Science, Electronics and Telecommunications
Electronics
Electronics and Telecommunications
Computer Science
Teleinformatics

Faculty of Mechanical Engineering and Robotics
Automatic Control and Robotics
Acoustic Engineering
Mechanical and Materials Engineering
Mechanical Engineering
Mechatronics

Faculty of Physics and Applied Computer Science
Medical Physics
Technical Physics
Applied Computer Science

Faculty of Applied Mathematics
Mathematics

Faculty of Geology, Geophysics and Environmental Protection
Geophysics
Mining and Geology
Applied Computer Science
Environmental Engineering
Environmental Protection
Tourism and Recreation
Ecological Sources of Energy

Faculty of Mining Surveying and Environmental Engineering
Geodesy, Surveying and Cartography
Environmental Engineering

Faculty of Materials Science and Ceramics
Ceramics
Chemistry of Building Materials
Materials Engineering
Chemical Technology

Faculty of Foundry Engineering
Metallurgy
Virtotechnology

Faculty of Non-Ferrous Metals
Materials Engineering
Metallurgy
Management and Production Engineering

Faculty of Drilling, Oil and Gas
Mining and Geology
Oil and Gas Engineering

Faculty of Management
Information Technology and Econometrics
Management
Management and Production Engineering

Faculty of Energy and Fuels
Power Engineering
Chemical Technology

Faculty of Humanities
Cultural Studies
Sociology
**Doctoral studies**

14 faculties of the AGH University of Science and Technology are entitled to confer the doctor's degree in technical, chemical, physical, Earth, economic, and mathematical sciences in **23 disciplines**: automatic control and robotics, biocybernetics and biomedical engineering, civil engineering, construction and operation of machines, chemistry, electronics, electrical engineering, power engineering, physics, geology, geophysics, mining and engineering geology, geodesy and cartography, computer science, materials engineering, production engineering, environmental engineering, mathematics, mechanical engineering, metallurgy, management sciences, chemical technology, and telecommunications.

We believe that doctoral studies are a very important element on the path to the development of university staff, and we consequently develop this area of our activity. In the educational offer there are **doctoral studies which are fully or partly conducted in English**.

**Postgraduate programmes**

AGH UST offers more than **90 postgraduate courses** aimed at both engineers (ceramics, electrical engineering, power engineering, gas engineering, geodesy, geophysics, mining, computer science, telecommunications, metallurgy, robotics, financial engineering), as well as people who are interested in obtaining a new specialization in computer science and computer graphics, environmental protection, public procurement, work safety, estate evaluation and management, human resources management, company management, quality management, and EU funds management.
e-Learning
The application of e-learning at the AGH University of Science and Technology encompasses a number of complementary activities. Both students and teachers can effectively use the new means of media and communications, in the first place by making use of the University e-Learning Platform. The unit which is responsible for the development of education with the use of the Internet is the AGH UST Centre of e-Learning.

Lifelong education
The AGH University of Science and Technology has a rich offer of additional training courses which are aimed at a very wide range of recipients. AGH UST units also offer specialist courses commissioned by production plants for their employees. The offer of these courses has no age restrictions. Implementing the idea of lifelong education we want to reach the highest number of social groups. For many years, AGH UST has hosted the AGH UST Open University. A characteristic feature of the Open University is its interdisciplinary character, which follows from the first Polish Open Seminar organised at AGH UST by professor Walery Goetel, the participation of the representatives of all age groups, as well as lecturers from all kinds of schools of higher education all over Poland, institutes of the Polish Academy of Sciences, and other governmental departments. In particular, the subject area of lectures relates to the advances in physics, computer science, the humanisation of technology, the optimum use of environmental resources, health-promoting activities, and the popularisation of culture. Lectures are combined with discussions and create an opportunity not only to update and broaden knowledge, but also make the representatives of different age groups think about the integration of sciences for the purpose of improving both the condition of the environment and the quality of life, as well as the contemporary problems of the 21st century.

A new initiative at the university is the project AGH UST JUNIOR aimed at children of the pre-school and primary school age. The aim of the project is to spark the children's interest in topics within the area of exact and technical sciences. The project encompasses a few parallel activities: science workshops for children, visiting the AGH UST Museum, and a specially created website: www.junior.agh.edu.pl. It is worth adding that AGH UST, as the first university in Poland, has launched a multimedia platform via which scientists and researchers can share their knowledge with the youngest students.
RESEARCH
AS A SOURCE
OF INNOVATION

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

Research activity of AGH UST comprises eight subject areas:
- Information Technologies,
- New Materials and Technologies,
- The Environment and Climatic Changes,
- Energy and its Resources,
- Mining,
- Electrical and Mechanical Engineering,
- Exact and Natural Sciences,
- Socio-Economic Sciences and Humanities.

The AGH UST staff are 2,000 scientists and teachers, of which 600 have a status of independent researchers. Scientists present the results of their research works and projects by organising and participating in a few dozen international and Polish conferences and science symposia every year. Experience and the highest qualifications enable many AGH UST professors to hold important functions in prestigious scientific bodies in Poland and abroad. The university conducts over 2,000 domestic research projects, and about 200 projects conducted jointly with international partners within the framework of the following programmes: Interreg, COST, EUREKA, ERDF, DESY, CERN, EU Framework Programmes.

Research activity is supported by modern equipment. We have one of the most powerful microscopes in the world – Titan Cubed G-2 60-300, unique technological and measurement equipment, including devices working in the conditions of high cleanness, in the so-called "clean room" with equipment designed for nanotechnology and material nonodiagnostic, as well as laboratories equipped with unique apparatus and devices, such as the Laboratory for the Evaluation of Energetic Efficiency and Automatic Control of Buildings – AutBudNet, which holds – unique in Poland and East-Central Europe – the accreditations of LonMark International, the Laboratory of 3D Interactive Visualisation and Virtual Reality, the Laboratory of Reverse Engineering and Fast Prototyping, the AGH UST – KGHM Laboratory of Critical Elements, and the Laboratory of Microelectronics and Radiation Sensors, in which, for example, research is conducted into the development of radiation detectors and specialised integrated circuits for Particle Physics experiments.
Making supercomputers available to others

Serving science, especially in the domain of computer networks, computing power and other information technology services, is performed by the AGH UST Academic Computer Centre Cyfronet, which the State Committee for Scientific Research has classified as a leading institution in the field of operating and developing the city computer network, as well as in the area of using computers of high computing power.

Supercomputer “Zeus” is used extensively by the scientific research community – in 2013, it performed nearly 8 million calculations, and the total operation time exceeded 11 thousand years!

Cyfronet supports researchers and scientists by making supercomputers available to them – one of the machines is the fastest computer in Poland “Zeus” (computing power of 374 TFlops). Since 2008, the cluster has been continually present on the list TOP500 of five hundred fastest computers in the world. Several times it was classified among the first one hundred computers of the ranking, and it is a leader in the classification of Polish computing systems.

In 2014, the university signed a contract for delivery of the most powerful supercomputer in the history of Poland – “Prometheus”. It will be four times more powerful than the famous “Zeus” – until now the best computer in East-Central Europe.

Academic Computer Centre Cyfronet is the leader of the consortium PL-Grid, thanks to which a group of projects aiming at computer-based support for the scientific environment have been established – Polish Infrastructure for Supporting Science in the European Research Space – PL-Grid.
Innovative solutions developed at AGH UST gain recognition on the international arena. Below, there are some selected achievements of our researchers in the academic year 2013/2014.

A new product being the result of collaboration between AGH UST and Rigaku appeared on the international market – it is a two-dimensional X-ray pixel camera called HyPix-3000. The core element of the camera are 16 single-purpose integrated circuits PXD18k designed at AGH UST, where each circuit contains about 40 million transistors. Camera HyPix-3000 belongs to the fastest cameras of this type in the world.

A team of researchers from Stanford University, the AGH University of Science and Technology, and the University of California in Santa Cruz have succeeded in generating eye retina artificial signals identical with the ones that retina sends to the brain, in this way transferring information about what we see with our eyes. These results open up a prospect of developing an advanced implant for the blind, thus providing artificial eyesight of high quality.

At the 62nd International Fair “Brussels Innova 2013” in Brussels, AGH UST scientists received the following awards:

- A gold medal for algorithm MITIS, which allows to detect even very advanced forgery in digital images.
- Silver medals were awarded for: forging technology of a modern aluminium alloy, and developing a new method of thermo-mechanical treatment of titanium alloy Ti-10V-2Fe-3Al of high deformation speeds.

In 2013, independent solutions in the fields of resonant power converters and biometric voice recognition systems were honoured with medals at the exhibition Taipei International Invention Show & Technomart 2013, and the 7th International Warsaw Invention Show IWIS 2013.

AGH UST researchers were distinguished with a silver medal at the 17th Moscow International Salon of Inventions and Innovative Technologies “ARCHIMEDES – 2014”. The award was granted for the solution “Smart Foundry – an intelligent system of technical knowledge management”.

A gold medal at the 42nd International Exhibition of Inventions in Geneva, and a special prize at the 17th Moscow International Salon of Inventions and Innovative Technologies “ARCHIMEDES – 2014” were awarded for the invention self-hardening steel for the main shafts of wind power plants.

\[\text{Professor Konrad Szaciłowski}\\
\text{AGH UST researcher}\\
\text{“In science, there are no useless things, provided they constitute an intellectual challenge, and research results reflect the beauty of the universe in the macro-micro-nanoscale. While searching for this beauty we learn about the surrounding world, and with a bit of luck, we have a chance to lay a sound foundation for future technologies, which may seem impossible today, but in several dozen years' time they will be as widespread as mobile phones or other popular gadgets of the 21st century. AGH UST is an excellent place for this kind of creative work.”}\\
\]
In 2013, the AGH University of Science and Technology received a prestigious award of the Ministry of Science and Higher Education for being particularly active in promoting inventiveness on the international arena.
A professional transfer of innovations from the university to the market is possible thanks to special purpose vehicles. At AGH UST, this role is fulfilled by the Krakow Centre of Innovative Technologies INNOAGH with 100% share capital owned by the AGH University of Science and Technology. Its main objective is the establishment of spin-off companies. The offer of INNOAGH is aimed not only at the academic environment, but also at business entities.

www.innoagh.pl

The mutual awareness of needs and possibilities, as well as the trust of the scientific and entrepreneurial environments are a key factor for the success of the transfer of technologies, hence increasing the innovativeness and competitiveness of the country’s economy.
TRANSFER OF KNOWLEDGE TO ECONOMY

The contemporary, very competitive market forces entrepreneurs to undergo constant development, for example, through introducing new or improved products or services, the rationalization of production costs, as well as limiting a negative influence on the natural environment. AGH UST has a wide scope of collaboration with entrepreneurs, responding to their needs. Our partners are ArcelorMittal, CEMEX, Cisco, Comarch, Erbud Group, LOTOS Group, IBM, KGHM, Lafarge, Nokia Solutions and Networks, PKN Orlen, PZL-Świdnik, RWE, SGL Group, Siemens, and Valeo.

Andreas Glenz, DSc
President of PREVAC
AGH UST graduate

“Those who have gained knowledge at AGH UST and had a little willingness and persistence, today are professionally successful. The university has great traditions, experience, and suitable teaching and research facilities.”

Centre for Transfer of Technologies

Within the structure of the university there is also the AGH UST Centre for Transfer of Technologies, whose aim is to support the processes of commercialisation and transfer of innovative technologies and knowledge. The AGH UST Centre for Transfer of Technologies deals with comprehensive issues connected with the transfer of new technologies, including:
- promotion of AGH UST research, technological and specialist offer for entrepreneurs and investors,
- selling intellectual property rights (patents, licences, know-how) and making them available in other forms,
- protecting intellectual property rights,
- obtaining funds supporting the transfer of technologies,
- information, advice and training related to the transfer of technologies.

The AGH UST Centre for Transfer of Technologies operates in the domains of the marketing of science in business environment, protecting intellectual property, as well as servicing and financing the transfer of technologies by means of cooperating with the AGH UST scientific environment and the entrepreneurial environment regardless of the scale of their activity, as well as with member organisations for entrepreneurs.

www.ctt.agh.edu.pl

AGH UST Academic Incubator supports entrepreneurship

The promotion of business fundamentals among university students, graduates and researchers, and providing direct help in the process of establishing and running one’s own business is one of the main aims of the AGH UST Academic Business Incubator. In total, over one hundred firms have been established at the AGH UST Academic Business Incubator, and 2,000 individuals have received help and guidance. The Incubator’s support is also used by students and employees of other universities in the Małopolska region.

www.aip.agh.edu.pl

Professional help in searching for job offers and specialists

The AGH UST Career Centre is a university unit whose main objective is to establish and maintain collaboration between the university and the Polish economy. The Centre’s scope of activity encompasses obtaining job offers and offers of practical trainings and internships, running a database of people looking for a job, collaboration with Polish and international companies, organising job fairs (twice a year), presentation of companies, recruitment meetings at the university, as well as workshops and trainings.

www.ck.agh.edu.pl

The Database of Job Offers and CVs is a platform which enables uploading CVs and job offers in two languages (Polish and English), as well as establishing a direct contact between an employer and a student or graduate whose curriculum vitae has been published in the database.
The university campus is an area of **38 hectares** located between the streets of Mickiewicza, Reymonta, Buszka, Tokarskiego, Armii Krajowej, Gramatyka, Nawojki, and Czarnowiejska.
One of the AGH UST assets is a unique university campus, i.e. all buildings in which lectures, classes and research activities take place. It is also home to the university administration, student organisations, sport and recreational facilities, as well as the AGH UST Student Campus – all these are located in one district of the city of Krakow.

**Location in the city centre**
A perfect location – only 1 kilometre from the Main Market Square in Krakow, as well as easy access to a big number of trams and buses ensure that one can easily get around the city with the use of the city transportation system. Within the area of the campus there are enough car parks and cycle racks, as well as places where students can relax and have a meal between classes. Most buildings are equipped with special lifts and ramps for wheelchair users, and the following improvements make it possible for our students to take active part in the university life: audio loops, room labelling in Braille, and adjustable-height desks. Green areas are made more interesting thanks to many sculptures and objects connected with the faculties’ activity, including the famous AGH UST locomotive.

AGH UST campus is covered by a 24/7 security system, and any on-site actions concerning security have been specified in a special agreement signed by the university authorities and the Municipal Police Headquarters in Krakow.
Investment
The university is in the phase of constant development, and in the course of the recent years it has changed its face thanks to many investments, such as: Centre of Computer Science, Centre of Ceramics, AGH UST Academic Centre of Materials and Nanotechnology, the building of the Faculty of Energy and Fuels, AGH UST Swimming Pool, Teaching Centre, Teaching and Research Laboratory of Renewable Sources and Conservation of Energy in Miękinia. In the new Machine Room of the AGH UST Academic Computer Centre Cyfronet there are maintenance rooms and well as computer rooms fully suitable for housing mass storage systems and computers of high computing power. At the same time, the extension of the Main Library has increased the comfort of using its resources and services thanks to the creation of a direct-access zone to parts of the book collection. A key investment is also the development of one of the greatest buildings in the history of the university – the Centre of Power Engineering – a modern complex with nearly 40 specialist laboratories. Invariably, the university also cares about the comfort of the inhabitants of the AGH UST Student Campus by means of regular refurbishment and modernisation works in student houses.

Thanks to the ongoing modernisation, the AGH UST Guest House “Sienkiewiczówka” is regaining its previous splendour. The building in which – according to the legend – one of the most outstanding Polish writers, Henryk Sienkiewicz, created “Quo Vadis” will again be a flagship of the AGH University of Science and Technology.
The historic centre of Krakow, within the area of which there are about 3,000 monuments, as early as in 1978 found its place on the first UNESCO World Heritage list, which contained only 12 most precious and significant sites from all over the world.

Krakow is the second largest city in Poland, and for centuries it has been an important political, cultural and scientific research centre. Currently, Krakow is home to 22 schools of higher education and a population of 200,000 students. Excellent infrastructure and unique intellectual potential are only some of the reasons why the development of modern technologies is concentrated in the capital of the Małopolska region. It should be noted that as many as 20% of all international students arriving in Poland choose to study in Krakow.
AGH UST Student Campus is the largest in Poland

The AGH UST Student Campus is located between the streets of Reymonta, Buszka, Tokarskiego, Armii Krajowej, Nawojki, and Miechowska. Its dwellers can reach the university buildings in 10 minutes. Comfortable conditions are a great asset of the student houses – access to the Internet, special places for learning, TV rooms, and club rooms. The room standard is improved regularly by means of necessary renovations and refurbishments. The student campus has its own sports fields (including a modern football pitch, and volleyball and basketball courts with artificial surfaces), and tennis courts. A very modern AGH UST Swimming Pool is another great asset. Close proximity of the Krakow Błonia Park and Park Jordana allows runners, joggers, cyclists, and roller skaters to spend time actively in picturesque and green areas of the city.

Tourists can take advantage of an attractive offer, whose prices are equally attractive. In July, August, and September, the AGH UST Student Campus becomes the largest summer hostel in Krakow. During the academic year, hostel services are provided by the student house OLIMP, which offers 280 beds in studio-type rooms with bathrooms and kitchenettes. A detailed offer of hostel accommodation is available on the website: www.taniehostele.pl

“Studying at AGH UST means studying in Krakow. The city pulsating with cultural life combined with its unique historical objects and places – this creates an unforgettable atmosphere. How unique are hiking excursions, the student festival Juvenalia, tavern parties, and faculty balls know only AGH UST students.”

13 hectares is the area of the AGH UST Student Campus
“A city within a city”

- 20 student houses
- eating establishments, shops and service-providing facilities
- student clubs
- a health centre
- a football pitch
- volleyball and basketball courts
- tennis courts
- a nursery school
- a bank
- a chemist’s
Our creativity is not only restricted to solving engineering challenges – a wide spectrum of interests of AGH UST students and employees is reflected in their artistic activity.

AGH UST students’, employees’, and graduates’ scope of creativity is extremely wide, starting from music, through painting, graphic arts, sculpture, photography, poetry, and many others.

Every academic year is rich in cultural events, such as, for example, concerts on the occasion of the inauguration of a new academic year, singing carols, charity concerts, painting and photography exhibitions shown all over the university, and also themed exhibitions in the Main Library and the AGH UST Museum.

The artistic side of the university are:

AGH UST Choir and String Orchestra “Con Fuoco”
In the choir’s repertoire there are many pieces, from medieval psalms, through classical compositions of the Renaissance and the Baroque, to quadri- and even octo-syllabic arrangements of contemporary music. Although “Con Fuoco” is the youngest choir among the Krakow’s universities, it has already had many successes both on the national and international arena.

AGH UST Representative Orchestra
The artists perform mainly popular and film music, as well as popular marches. The orchestra’s sound palette features the following instruments: flute, clarinet, saxophone, trumpet, trombone, French horn, oboe, bassoon, tuba, percussion instruments, and guitar. The make-up of the orchestra changes frequently, new members join in, and many university graduates, despite completing their studies, continue their musical adventure with the orchestra.

AGH UST Student Dance Club
It is the oldest club of this type in Poland. It has organised dance classes since 1955, and it also trains dancers in the competition section.

AGH UST Song and Dance Ensemble “Krakus”
The oldest student folk group in Poland shows the original Polish folklore. Songs, dances and traditions presented in suites related to the following regions of Poland: Krakow, Silesia, Rzeszów, Łowicz, Nowy Sącz, Lublin, Kielce, Żywiec, and Beskid, describe the beauty of these regions in a picturesque way.
The university is receptive to young people who are willing to create multi-directional projects, gain new experiences, and develop their artistic skills. At AGH UST, such opportunities are created by:

- student television – MINE TV,
- student radio – Radio17,
- AGH UST Krakow Student Photography Agency,
- AGH UST Student Newsletter.

**Student clubs**

The most energetic place with a concentration of music life, both on the map of the university, and in Krakow in general, are student clubs located at the AGH UST Student Campus. Each of them is unique, but they all have one thing in common – great atmosphere.

**Klub STUDIO** is one of the largest Polish concert clubs, where performances are given by well-known artists from Poland and all over the world. **Klub Zaścianek** regularly hosts concerts of emerging music bands, live-band karaoke, and collective singing events. Thinking of demanding students who look for more ambitious music, **Klub Gwarek** organises concerts of blues, jazz and folk performers. Dance lovers are welcome to visit **Klub Karlik**. An ideal location for meetings with friends is **Klub Filutek**, whose interior decorations let you escape from the hustle and bustle of the city while dining in good company over a tasty meal.

A special place serving artists from AGH UST is the so-called “Kotłownia” (English: “Boiler house”), being part of Klub STUDIO, where there are special rehearsal rooms.
The pride of the university is the AGH UST Academic Sports Association – one of the largest clubs of the Association in Poland, with nearly 1,000 best athletes of the academic community in Krakow, who practise sports in 38 units. Professionalism and top physical condition are confirmed by one of the greatest successes in the history of the club – a triumph in the general classification at the Academic Championships of Poland in season 2012/2013. A great victory was also a silver medal at the 2nd European University Games won by the men’s volleyball team in 2014.
AGH UST IS COMMITTED TO SPORT

A large number of various sports units, excellent coaching staff, many sports fields, and a modern swimming pool – AGH UST attracts all people who are passionate about sport.

While taking care of the physical development of the academic community, the university promotes a healthy lifestyle. Regular investments in sports facilities bring us closer to the achievement of the goal of creating a Sports Centre within the boundaries of the university campus.

Our athletes represent the university at the most important championships in Poland and abroad, and professional athletes can enjoy individualised programmes of study, as well as scholarships for outstanding sporting achievements. Practising sports is possible thanks to the various units of the AGH UST Academic Sports Association and student sports clubs.

The AGH UST Department of Sport and Physical Education is responsible for physical education classes. The AGH UST Department of Sport and Physical Education makes use of the following sports facilities: modern sports halls with an artificial surface, two modern gyms (recreational and training), an aerobics and training room, a football pitch, table tennis rooms, fencing rooms for people with disabilities, three high-class yachts, canoes, and a steam sauna.

The AGH UST Department of Sport and Physical Education participates in organising sailing, rowing, skiing and cycling camps, as well as organises alternative rehabilitation classes for students with health problems, and carries out training within the field of basic life support.

The AGH UST swimming pool is a modern sports and recreation complex located within the area of the AGH UST Student Campus. The complex holds a 25-metre swimming pool officially approved by the Polish Swimming Federation, a 25-metre swimming pool for swim lessons and practice, a recreational swimming pool with hydro-massage, a Jacuzzi, a water slide, and saunas (steam and dry), as well as a gym with modern TechnoGym exercise equipment. Our professional and experienced instructors offer swimming lessons, aqua aerobics, fitness classes, medical massage, and martial arts. The building also holds a modern bowling alley, billiards, a Play Centre for children, as well as a bar, a restaurant, and a shop with sports equipment.

Urszula Pleśniak
AGH UST student

“AGH UST is a university which does not only provide education, which ensures a wonderful start on the labour market, but it also supports students’ passions and makes you feel to be part of a great, amazing community.”
AGH UST tries hard to create the best possible conditions thanks to which disabled students can receive education that will enable them a good start in adult life.

The methods and forms of education at AGH UST are flexible and tailored to the individual needs of the student. Most of the university buildings are equipped with lifts and ramps for wheelchair users, and the other buildings are gradually being adapted to their needs. A great asset is a modern student house with rooms fully designed for disabled students. Our efforts have been appreciated by the Municipal Office of Krakow – the Main Library was distinguished in the competition “Kraków without Barriers” for the best-adapted building for the needs of disabled people.

Students with hearing difficulties can benefit from sign language interpreters free of charge. More and more AGH UST units have employees capable of communicating in sign language. Students who are partially sighted or hard of hearing can also attend specially-designed foreign language classes. In the laboratory of typhlo-informatics, blind and visually impaired students can use specialist equipment, and text-enlarging and reading software.

The university library enables students with various disabilities to use the library resources in alternative forms. Students can also hire individual rehabilitation and educational equipment (for example, FM systems, Dictaphones, enlargers, etc.) Psychological support is also available.

A helping hand given to disabled students does not only concern educational issues. Students with disabilities can attend sports classes, such as wheelchair fencing, and exercises in a specially-designed gym and swimming pool. At AGH UST there is also a rehabilitation group. A university basketball team for students on wheelchairs, the only one of this kind in Poland, is open to students of other universities.

The university activities for disabled students are coordinated by the AGH UST Disability Support Office, which also supports the initiatives of the Association of Disabled Students, the first organization of this kind in Poland. The Office offers legal advice and helps students in contacts with the university authorities, as well as offers support in solving all kinds of problems. Students can also take part in adaptation camps, integration events, workshops and courses.

At the AGH University of Science and Technology there are about 500 disabled students.


**STUDENT LIFE**

Scientific conferences, debates, trainings, lectures, special interest groups and student organisations, etc. – AGH UST is a place which enables comprehensive development.

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**University life**

The university pulsates with life. From a ceremonial inauguration of the academic year, through the traditional festivities of St Barbara’s and Metallurgist’s Days, to many interesting events, such as: conferences, concerts, debates, exhibitions, mineral fairs, regular job fairs, charity campaigns, sports competitions, and many other events, for example, Science Festival, Scientists’ Night, and AGH UST Day.

Studying is a period of gaining knowledge, but also developing a personality. The university supports students at every stage, starting from the beginning of their course of studies (for these students the programme ADAPTER has been designed), through the support of the Career Centre in looking for practical training opportunities, internships, and job offers, to starting their own business activity at the Academic Business Incubator.

During the period of study we meet a lot of people, and make friends for life. Building a good atmosphere is helped by many initiatives, such as traditional tavern parties, balls, and excursions, which are also attended by the university teachers.

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**Special interest groups**

Student Special Interest Groups create an opportunity to broaden knowledge and skills under the supervision of the best scientists and researchers. In total, AGH UST hosts nearly 120 Student Special Interest Groups – all belong to the Mining or Metallurgy Section.

The most typical forms of activity of the student special interest groups are:

- regular training meetings,
- participation in theoretical and experimental research conducted by faculty departments and institutes,
- organisation of conferences, seminars, and science camps,
- participation in Polish and international conferences, and in international student exchange programmes,
- research and training excursions, as well as science, tourist and recreational trips.

The results of students’ year-round work are presented at the Student Sessions of Special Interest Groups, which take place during the traditional university celebrations on the occasions of Miner’s and Metallurgist’s Days. The best works presented during each session are then published in...
At AGH UST there are nearly 120 special interest groups and 40 student organisations, in which students can broaden their knowledge, and develop their passion for sports, arts, and journalism, as well as accomplish various projects.

“Zeszyty Naukowo-Dydaktyczne AGH” (English: AGH UST Scientific Journals), and these publications often become a springboard for a scientific career of the future graduate. In order to support and develop students' scientific movement and integration, as well as to ensure the continuity of contact between graduates and the members of currently active student special interest groups and university researchers, the Student Scientific Society has been set up. It organises competitions for the best master theses called “The diamonds of AGH UST”, held under the auspices of the AGH UST Rector.

**Student organisations**

Students can practise sports in 38 sports units offered and managed by the AGH UST Krakow Academic Sports Association, and a ski club, as well as to take part in karate classes. The university is also a starting place for many wonderful journeys – by travelling the world with a tourist, sailing, speleologist, mountaineering, motorcycling, diving or kayak club you can experience many unforgettable adventures.

Carrying out various projects is the basic form of activity of such organisations as: AGH UST BEST Krakow, international organisation EESTEC LC Krakow, AGH UST IAESTE Krakow, University Section of the Polish Red Cross and the Honorary Blood Donors Club at AGH UST, AGH UST Section of the Catholic Youth Association, AGH UST Academic Movement “Against the Flow”, AGH UST Association of Polish Students, and AGH UST Association of Disabled Students.

AGH UST students are represented by the University Board of Student Government, which organises many cultural, scientific and sporting events, as well as the legendary student festival *Juvenalia*. The university also hosts the University Board of Doctoral Students’ Government, AGH UST Independent Students’ Union, and the AGH UST Section of Erasmus Student Network.
Daniel Prusak, DSc
Supervisor of AGH UST Racing team

“It is a great thing that we have managed to organise this team at AGH UST. AGH UST Racing is the first project of this class in Krakow and in the Małopolska region. Our university creates excellent conditions for the development of students through realising their passions in advanced, interdisciplinary projects which focus on practical aspects. I am proud that this project unites the most talented and motivated young people.”
Within the structure of the AGH University of Science and Technology there are 16 faculties, and a scientific research centre – the AGH UST Academic Centre of Materials and Nanotechnology, which has a status of an AGH UST non-faculty basic organisational unit.
The Faculty of Mining and Geoengineering (Faculty of Mining until 2002) is the oldest faculty of the university. It was the only faculty when the university was established by Józef Piłsudski in 1919. Until the 1950s, the history of the faculty is the history of the university.

Apart from the above, the faculty carries out non-typical research, namely, into the revalorisation and protection of the underground infrastructure of historic towns such as Sandomierz or Kłodzko. The faculty participates in carrying out general agreements signed with numerous institutions in Poland and abroad. These agreements mainly concern R&D collaboration, the improvement of laboratories, students’ practical training, and the mutual employment policy of university graduates. The faculty co-operates with several universities and research centres in Poland and other countries (Russia, France, Germany, Ukraine, Slovakia, the Czech Republic).

At present, the faculty staff actively work on the reclamation of mining land, solve the problems of economics, organization and management in mining, as well as deal with water, gas, and heat hazards. The faculty actively collaborates with industry by exporting Polish know-how to nearly all countries.

Faculty graduates, depending on the specialisation, are prepared to work in the units of civil and local administration, centres of environmental protection, and the economic departments of companies. They can also be employed in positions involving design and investment in mines, as well as work underground. Students get full qualifications entitling them to hold top positions in mining and civil engineering companies. The programme of studies at all specialisations of Mining and Geology as well as Civil Engineering follows all formal and legal requirements for mining and construction engineers.
When the Senate of the Mining Academy appointed the first Council of the Faculty of Metallurgical Engineering on 21st May, 1922, metallurgy became a new, separate course. In its long history, the Faculty’s name changed several times. At present, it is the Faculty of Metals Engineering and Industrial Computer Science.

The current faculty structure comprises departments which conduct research and educate students in Metallurgy, Materials Science, Heat Engineering, and Applied Computer Science. The faculty collaborates with Polish research centres of a similar profile: the Faculty of Materials Science and Metallurgy at the Silesian University of Technology in Katowice, the Faculty of Materials Processing Technology and Applied Physics at Częstochowa University of Technology, the Institute of Metallurgy and Materials Science at the Polish Academy of Sciences in Krakow, the Institute of Iron Metallurgy in Gliwice, and others. The faculty maintains excellent contacts with industry by participating in research projects and industrial training. International collaboration includes long-term scientific contacts with industry, universities, and research institutes.

Current research focuses on extractive metallurgy, materials science, metal forming, heat engineering, environmental protection, computer-aided modelling of metallurgical processes, and industrial computer science.

Faculty graduates are prepared for careers in metals engineering, heat and air conditioning, environmental protection and waste management, and computer science for materials engineering. Graduates of Education in Technology and Computer Science can work in all types of educational institutions, including universities. They are also prepared to give lectures and training in applied and industrial computer science on courses organised by various organizations, companies, and institutions.
The AGH UST Faculty of Electrical Engineering, Automatics, Computer Science and Biomedical Engineering is one of the largest faculties in Poland. It invariably occupies a high position among other similar educational units both in Poland and abroad. Initially, the history of the faculty was connected with the Faculty of Electromechanics (established in 1946), which in 1952 was converted into two faculties: the Faculty of Electrification of Mining and Metallurgy, and the Faculty of Mechanization of Mining and Metallurgy.

The scientific potential of the faculty is confirmed by its right to confer the degree of doctor, as well as the post-doctoral qualification in Automatics and Robotics, Computer Science, Electronics and Electrical Engineering, and the doctor's degree in Biocybernetics and Biomedical Engineering. The scientific and research activity at the faculty concentrates on modern techniques and technologies in information, bioengineering, robotics, environmentally-friendly production, transportation and the use of electrical energy, modern electrical equipment, and metrology. Research conducted at the faculty usually finds practical solutions in various areas. A lot of the faculty staff also hold prestigious positions in world organizations, committees, and honorary social organizations.

The development strategy of the faculty concentrates mainly on the following fields of science: biotechnology, information society technology, sustainable development – renewable sources of energy, as well as the equipment for disabled people. The discipline of Biomedical Engineering goes beyond the traditional domains of technology in order to serve people, incorporating experience of scientists representing various disciplines.

Integration and versatility are very important aspects of courses offered to faculty students. Graduates of the faculty frequently undertake their first jobs during the study period, subsequently becoming the most needed specialists on the labour market.
The Faculty of Computer Science, Electronics and Telecommunications, thanks to its exceptional scientific staff and experienced teachers, carries out professional research and fulfils its educational mission at the highest level in the fields of computer science, electronics and telecommunications.

A recently introduced new degree programme of Teleinformatics, which combines the achievements of Computer Science and Telecommunications, develops dynamically. Admissions for new candidates for the study study field of Electronics, the first degree programme that will be run independently from Electronics and Telecommunications both in Polish and English, start in the academic year 2014/15.

Modern and exceptionally well-equipped facilities, spacious classrooms and the most modern laboratories are available to students, for example, in the AGH UST Centre of Computer Science that became operational in 2012 – a building which has received many architectural awards and distinctions.

The faculty encourages its students to participate in the activities of student special interest groups: Telephoners, KNE (student special interest group of electronic engineers), SPECTRUM (signal processing), and BIT. Degree programmes that are adjusted to the fast-paced environment of the relevant industries combined with high teaching standards give graduates of the faculty a real advantage on the labour market, and allow them to become valuable members of engineering teams working for international corporations located in Krakow and all over the world, such as Google, IBM, CISCO, Motorola, Delphi, Comarch, ABB, Nokia Solutions and Networks.
The Faculty of Mechanical Engineering and Robotics became a separate AGH UST unit in 1952 as a consequence of the division of the Faculty of Electromechanics; initially, its name was the Faculty of Mechanization of Mining and Metallurgy. The present name was given in 1952. At the moment, the faculty employs 300 staff, including 220 university teachers, and educates 3,700 students.

For many years, the faculty has been dealing mainly with mechanics, machinery construction and operation, automatics and robotics. In the recent years, the number of patents and implementation agreements has been significant.

The faculty collaborates closely with the extractive and metallurgical industries together with their technical base, and a considerable number of energy and heat energy plants. In particular, the collaboration with the following companies is very close: KGHM Polska Miedź, Skanska, Siemens, PZL Mielec – Sikorsky Aircraft Corporation, IOS Krakow, Valeo, ABB, Kirchhoff, MAN, Mitsubishi Electric, PIMOT Warsaw, and Delphi Automotive Systems. Thanks to our highly-qualified staff, the faculty can collaborate with worldwide recognized educational centres in the European Union, Latin America, and the USA.

Faculty students obtain grants and can study in Germany, France, and Great Britain, which results in obtaining a double diploma – one of AGH UST, and one of a foreign university. A wide scope of studies enables faculty graduates to work in any industrial branch in Poland, and their spectacular careers are often the best proof of their qualifications.

The faculty is changing constantly, following the needs of the transforming economy, and the expectations of candidates. The faculty’s latest offer is Mechatronics. It is a new, interdisciplinary field of study which combines mechanics, electronics, and computer science. Mechatronics deals with products which require a very high functional and technological integration of their mechanical, electromagnetic and electronic parts. The Faculty of Mechanical Engineering and Robotics also offers studies in the discipline of Acoustic and Sound Engineering, and in the discipline of Mechanical and Materials Engineering.
The Faculty of Geology, Geophysics and Environmental Protection had its beginnings in the early days of AGH UST in the form of three “geological” departments belonging to the Faculty of Mining, which was the only faculty of the Mining Academy at that time. In chronological order they were: the Department of Mineralogy and Petrography, the Department of Geology, and the Department of Applied Geology. In 1946, they were incorporated into the newly-established Faculty of Geology and Surveying, which evolved into the Faculty of Geology (in the academic year 1951/1952), and the Faculty of Geology and Mineral Exploration (in the academic year 1952/1953). In the following years, the faculty grew steadily, and its structure underwent many changes. In the academic year 1992/1993, the faculty was renamed again, and since then it has had its current name – the Faculty of Geology, Geophysics and Environmental Protection.

At present, the faculty has the most environmental profile among the technical faculties of AGH UST. It is the only faculty in Poland which educates students of geology to become specialists in applied geology, geophysics and computer science, and at the same time, it offers university-type of education, including the environmental aspects of geological sciences and tourism.

Such a diversity gives faculty graduates better possibilities to find employment in industry (mainly in mining and related sectors), secondary education, research institutes, administration, tourist offices, and others.

Among the European universities, the Faculty of Geology, Geophysics and Environmental Protection has the highest number of professors and associate professors (doctors with post-doctoral qualifications) in geology, supported by a substantial number of doctors and assistants; some of them are the former Fulbright and Humboldt scholarship holders.

The staff, working in well-equipped laboratories, can deal with almost any research task, carrying out mainly practical research. Staff members are also involved in fundamental research that helps us understand better the world and its phenomena around us, although the results of this research cannot currently find a practical use due to the insufficient development of technology.
The AGH UST Faculty of Mining Surveying and Environmental Engineering was established on 1st October, 1951, on the basis of two existing units: the Geodesy Department at the Faculty of Engineering of the AGH Polytechnic Faculties, and the Department of Mining Surveying at the Faculty of Surveying and Geology. Initially, the faculty students were educated in geodesy and cartography, specialisations covering mining surveying and engineering, and industrial geodesy.

At present, the faculty’s research activities focus on the implementation of computer science in the context of spatial data processing, and on using modern metering and measurement techniques for the purpose of industrial, architectural and infrastructure stocktaking.

Research activities cover the implementation of the GPS technology, terrestrial and aerial laser scanners, and the application of radar interferometry. Extensive studies have also been conducted into the use of remote sensing and photogrammetric methods for the purpose of monitoring the natural environment and historic buildings.

In the area of environmental engineering, the research activities aim at improving the methods used for determining the quality level of all environmental components. Scientific studies include research into the amount of emitted pollutants coming from various sources, focus on their influence on the ecosystem, and the optimisation of industrial technologies in order to weaken their harmful effect. Various methods of environmental management such as air quality management, water, sewage and waste management have also been developed. A lot of attention is paid to soil surveying, the reclamation of contaminated sites, and the restoration of their biological functions.

www.geod.agh.edu.pl
The origins of the Faculty of Materials Science and Ceramics date back to 1949, when the Faculty of Minerals, later renamed the Faculty of Ceramics, was set up at the University of Mining and Metallurgy. Its present name was given in 1971, and was related to the inauguration of the “Materials Science” course, the first such a course in Poland, and one of the first courses of this kind in Europe.

The Faculty of Materials Science and Ceramics educates students in the following disciplines: Materials Engineering, Chemical Technology, Ceramics (since 2010), and Chemistry of Building Materials (a joint programme of three universities: Gdańsk University of Technology, Technical University of Łódź, and AGH UST, offered since 2011).

Students graduating from the faculty have strong technological background, traditionally associated with the manufacturing of ceramics, glass, building materials, and refractories. They also have comprehensive engineering knowledge in the areas of designing, processing and testing new materials for specific applications in different fields of modern industry (for example, energy production, aircraft and automobile industries, electronics), materials for medicine and environmental protection, as well as analytical science and quality control.

The main research activities of the faculty staff in the area of solid state chemistry, inorganic chemistry and silicate chemistry focus on problems important for traditional large-scale technologies, but they also concentrate on the development of knowledge-based materials for demanding applications, and advanced characterization methods and analysis.

The Faculty Board is entitled to confer the degree of doctor as well as the post-doctoral qualification, and the title of professor in chemical and engineering sciences in the following disciplines: chemical technology, materials engineering, and chemistry. The Faculty of Materials Science and Ceramics is a well-equipped research and education centre which has a nationwide importance, strong links with industry, as well as excellent international collaboration.
FACULTY OF FOUNDRY ENGINEERING

The Faculty of Foundry Engineering was established in the academic year 1951/1952 by the act of dividing the Faculty of Metallurgy. In line with the faculty’s profile, there were two specialisations: foundry technology, and foundry machines and mechanisation. At present, the faculty is entitled to confer the degree of doctor as well as the post-doctoral qualification, and the title of professor.

Modern foundry technology mainly strives for the improvement of casting production quality, reduced consumption of energy and raw materials (lean processes and lean production), improved processes and product economy, and, last but not least, reducing the harmful effect of the foundry industry on the environment. The idea of constructing and operating a waste-free foundry plant is nowadays the main subject of large-scale international research projects.

Graduates of the faculty are well-prepared to face the challenges of modern industry. The faculty maintains close contact with foundry enterprises, organises training courses for students, as well offers postgraduate scholarships to individuals who have successfully completed their studies. In 2011 – with the help of the Faculty of Metals Engineering and Industrial Computer Science – a new, interdisciplinary field of study called “Virtotechnology” was introduced. Graduates in this discipline gain knowledge and practical skills with regard to the processing of metals, materials technology, computer science, economics, and ecology. In 2013, a new specialisation “Virtualization of Foundry Engineering” was introduced at the postgraduate programme of study within the framework of Virtotechnology. The specialisation programme comprises courses such as technology and its trends of development, computer-aided engineering, modern systems of enterprise management, computer science, and applied mathematics.

Faculty staff maintain relationships with numerous scientific and research centres, universities, research institutes, and industry. A map of the locations of foundries and enterprises with which the Faculty of Foundry Engineering has collaborated covers practically the whole area of Poland.

www.odlewnictwo.agh.edu.pl
FACULTY OF NON-FERROUS METALS

The Faculty of Non-Ferrous Metals was established in 1962. It is a research and educational unit which is unique in the world scale. It educates future engineers and conducts research for the industries of metallurgy, materials science, processing of non-ferrous metals, physical metallurgy, as well as related branches. Since the early days of the faculty, it has maintained very close collaboration with industry.

The development strategy of the faculty is mainly based on two fundamental notions: educating students and carrying out research, both leading to staff development. Our educational offer for students encompasses the latest technologies in the field of the production and processing of metals, alloys, and composites, as well as the methods of testing and designing their structures and properties by means of modern analytical and experimental instrumentation.

Graduates of the faculty know how to make use of the special features of metals, such as durability, hardness, plasticity, electrical and thermal conductivity, superconductivity, magnetic properties, shape memory, and many others. The faculty prepares its graduates to work not only in the metallurgical and processing plants of the industry of non-ferrous metals. The knowledge gained during the course of studies also allows them to find employment in the metal, machine-building, automotive, aircraft and ship-building industries, in the production of cables and materials for power industry, in the industries of electrical engineering, telecommunications and medicine, precious metals production, the Polish Mint, and in other plants dealing with plastic working and heat treatment, property testing, and quality control.

Collaboration with industry has been performed within the framework of a large spectrum of subjects from the problems of obtaining metals from concentrates to the production of new alloys and products designed for different purposes. It encompasses all plants of non-ferrous metals (metallurgical and processing), as well as a large number of enterprises operating in the mechanical, chemical, oil, power engineering, iron and steel sectors, and many others. The faculty has also been a co-founder and active participant of projects conducted by various research and scientific consortia.

www.wmn.agh.edu.pl
FACULTY OF DRILLING, OIL AND GAS

The Faculty of Drilling and Petroleum Engineering was established in 1967, and in 1995, it was renamed the Faculty of Drilling, Oil and Gas.

Its activity focuses on petroleum, gas engineering and scientific research, mainly of practical character. Being the only faculty of this kind in Poland, it offers education within full-time, part-time, doctoral and postgraduate study programmes.

The Faculty of Drilling, Oil and Gas consists of three departments: Drilling and Geoengineering, Oil Engineering, and Gas Engineering.

The works of the Department of Drilling and Geoengineering concentrate on designing boreholes, optimising the parameters of drilling technology, working out the compositions of drilling muds and sealing slurries, designing tools and devices for on- and off-shore boreholes, as well as trenchless techniques.

The Department of Oil Engineering is responsible for investigating new geophysical methods, methods of on- and off-shore oil and gas production, mathematical modelling and computer simulations of liquid raw materials production, deep and surface geological cartography of hydrocarbon deposits, determining hydrodynamic conditions of hydrocarbon migration and accumulation, verification of hydrocarbon resources, geochemical monitoring of underground gas storage facilities, utilization of sewage and waste water, environmental monitoring, exploration and production of groundwater, as well as activation and renovation of wells and water distribution systems.

The scientific and research works conducted at the Department of Gas Engineering focus on natural gas production, underground gas storage, production of natural gas from unconventional deposits, designing gas transfer systems, modelling hydrocarbon deposits production and UGS operation, works related to carbon dioxide sequestration, and the analyses of energy systems in Poland.

The Faculty of Drilling, Oil and Gas collaborates with scientific centres in Poland and abroad. A result of this collaboration are European and Polish joint projects, as well as numerous publications, expert reports, and patents.

www.wnig.agh.edu.pl
FACULTY OF MANAGEMENT

For forty years, the faculty has focused on teaching and research aimed at the development of a solid base of knowledge combining management with modern technologies.

The mission of the AGH UST Faculty of Management is to support the development of modern management systems for organisations acting in economy based on knowledge by means of creating and transferring advanced and practical knowledge in the field of economic and technical sciences.

Successes in this area have been confirmed by obtaining a very high scientific category “A”, as well as regular top positions in the rankings of the best economic departments of technical universities.

The educational offer for students is a reflection of the traditions and challenges of the contemporary market. Education at first- and second-cycle studies is conducted at three fields of study: Management, Management and Production Engineering, and Information Technology and Econometrics. A versatile profile of study programmes encompassing a wide range of managerial and engineering skills offers faculty graduates high employment prospects, both in private enterprises, as well as in the public sector.

A strength of the faculty is well-developed international collaboration. It enables students to do an internship or work placement abroad, study at a partner university, take part in lectures given by professors from other countries, and to cooperate directly with a large number of international students at the faculty. International collaboration also plays an important role in scientific research activity.

Faculty researchers are recognisable in Polish and international scientific environments, deliver lectures abroad, as well as accomplish joint projects in international research teams. The results of conducted research are published regularly in leading Polish and international scientific journals. An important role in the research activity conducted at the faculty is played by the popularisation of knowledge and its transfer to the economic reality.

The Faculty of Management is an AGH UST unit offering the widest range of educational forms aimed at the practitioners of management. The educational offer which enables lifelong learning encompasses first- and second-cycle part-time studies, doctoral studies, various courses and trainings, as well as postgraduate programmes.
The Faculty of Energy and Fuels is now at a turning point: it develops very rapidly and in line with an increasing demand for energy and fuels, both being essential for the economic growth of any society.

The faculty was established in 1991 as the Faculty of Coal Energochemistry and Physical Chemistry of Sorbents. At that time, the research and education offered by the faculty concentrated on the enerochemical processing of coal, and the development of sorbent technologies. Gradually, the faculty extended its educational and research offer with an emphasis on fuels and energy of the highest quality, conditions of sustainable energy development, implementation of renewable energy sources, and environmental protection in chemical and power industries. Consequently, in 1995, the faculty’s name was changed to the Faculty of Fuels and Energy.

Although the faculty educated students in chemical technology, many elements of energy and power engineering were also introduced into the programmes of study. Therefore, students who graduated from the faculty could apply for a job in the chemical, power engineering, metallurgical, gas, heat, and environmental protection industries, as well as in local and governmental administration.

In 2003, the Ministry of Science and Higher Education registered a new discipline of study: energy. At AGH UST, the education in this discipline was entrusted to the Interfaculty School of Power Engineering. In 2008, the Senate of the University decided to integrate the Faculty of Fuels and Energy and the Interfaculty School of Power Engineering in order to form a large and significant faculty whose aim was to combine education and research on fuel technology and power engineering.

Since 2008, the Faculty of Energy and Fuels has significantly developed its scientific research infrastructure, as well as the base of human resources. The number of departments has increased from three to eighth, the number of research staff from 56 to 105 (professors from 12 to 25 plus 6 candidates for the position of professor), and the number of students has doubled. New specialisations have been introduced, for example, nuclear power, hydrogen energy, and computer modelling in power engineering. New laboratories and lecture rooms have been built, some have been refurbished.
The origins of the faculty date back to 1919, when the Mining Academy was founded, within which the Department of Physics was established. It had undergone several organizational transformations, until in 1991, the AGH UST Senate decided to form the Faculty of Physics and Nuclear Technology. In 2004, the name was changed to the Faculty of Physics and Applied Computer Science, according to the changes in the fields of research and educational activity.

The faculty offers several programmes of study leading to bachelor’s, master’s, and doctor’s degrees. The undergraduate courses encompass a seven-semester basic bachelor’s programme. They are followed by three-semester postgraduate programmes leading to master’s degree in the following specialisations: Medical Physics, Technical Physics, and Applied Computer Science.

“The Construction and Establishment of the Bionanotechnology and Biodiagnostics Laboratory at the Faculty of Physics and Applied Computer Science of the AGH University of Science and Technology in Krakow” within the framework of the Malopolska Regional Operational Programme of the European Regional Development Fund is a dedicated project whose aim is to ameliorate both research and teaching quality in the discipline of Medical Physics. The faculty runs a four-year programme of doctoral studies in Physics in the fields related to the research interests of the faculty staff, i.e. technical nuclear physics, condensed matter physics, high energy physics, nuclear electronics, and environmental physics.

In collaboration with other research institutes, the faculty runs an interdisciplinary research project “Advanced Materials for Modern Technologies and Future Energetics”.

The faculty’s research programmes are carried out in close collaboration with many international laboratories and research centres. Many research projects are conducted within the European Framework Programmes.

The scientific activity of the faculty comprises both fundamental and applied research in nuclear physics, solid state physics, and the physics of the environment.

The Faculty Board is entitled to confer the degree of doctor as well as the post-doctoral qualification in Physics, and to apply for conferring the title of professor. In a recent ranking of the State Committee for Scientific Research, the faculty has received the top grade “A”. The faculty staff hold posts in the Polish Government, in major Polish scientific organizations, and in various international science and research bodies.

www.fis.agh.edu.pl
Mathematics has been present at the AGH University of Science and Technology since its origins. The first Rector of the university, professor Antoni Hoborski, was a mathematician.

In 1969, the Department of Mathematics and the Department of Descriptive Geometry were merged in order to form the Institute of Mathematics, an interfaculty unit whose staff members taught at all university faculties. The institute became the Faculty of Applied Mathematics in 1997.

The research activities cover various areas of mathematics and its applications, including discrete mathematics, in particular, graph theory, functional analysis, numerical methods, computational mathematics, statistics, differential equations, geometry, and stochastic analysis applied to finance.

The faculty runs master’s degree courses in applied mathematics, focusing on providing students with practical skills which can be applied to computer science, finance, insurance, management, and various areas of technology.

Surveys show that 100% of faculty graduates find employment in industry, banks, insurance companies, administration, and education. The faculty is entitled to confer the degree of doctor in Mathematics.
The Faculty of Humanities (formerly Faculty of Applied Social Sciences) was established in 2001 in response to new educational and research needs which had developed as a result of globalisation and rapid technological progress. The mission of the new faculty was defined as the education of modern specialists combining social knowledge with expertise in the application of new information and communication technologies to various areas of public life and business activity.

The Faculty of Humanities offers courses in the following fields of study: Sociology (with two specialisations in Polish: Multimedia and Social Communication, e-Economy, and one in English: Technology & Society), and Cultural Studies (with three specialisations in Polish: New Media and Intercultural Communication, Culture of New Media, Visual Communication and Graphic Design).

Students gain knowledge related to media, popular and audiovisual culture, advertising and promotion, as well as they attend workshops on interpersonal communication, intercultural mediation, planning and management of media projects, and obtaining grants in the field of culture. The interdisciplinary model of studies at the Faculty of Humanities ensures a wide range of employment possibilities for all faculty graduates.

Sociologists can be employed by public sector institutions, governmental and non-governmental organizations, PR and advertising agencies, as well as social research centres.

Cultural Studies graduates are well prepared to work for various cultural institutions: media, museums, cinemas, theatres, non-profit organizations, advertising agencies, and community centres.

For several years the faculty has been rewarded for the courses it offers. In 2012, the faculty came second in the general classification of “One million zloty competition” for the curriculum at the postgraduate programme of Sociology (ranking published by the Ministry of Science and Higher Education).
AGH UST ACADEMIC CENTRE OF MATERIALS AND NANOTECHNOLOGY

The AGH UST Academic Centre of Materials and Nanotechnology was officially established in July 2013. The Centre evolved from an initiative called CZT AKCENT MALOPOLSKA, in which besides AGH UST active participants were the Jagiellonian University and the Cracow University of Technology. The main tasks of the Centre concern research in the field of engineering materials and nanomaterials, and nanotechnology in general.

The Centre features eight Research Lines, which conduct fundamental and practical research into magnetic materials and their nanostructures. In particular, research with the use of microscopy, and x-ray and gamma spectroscopy is being developed. Research is also conducted into the modelling of intermolecular forces, and organic optoelectronic devices, such as light-emitting diodes, transistors, and solar cells. Unique measurements of physical properties executed in ultra-low temperatures (T=10 mK) are also remarkable. Research conducted at the Centre also concerns the development of nanoparticles for diagnostic and medical applications.

Theoretical research carried out by the Academic Centre of Materials and Nanotechnology concerns the problems of electron states and conductivity, the connection topological insulator-graphene and superconductor-graphene, as well as the theory of high-temperature superconductors.

The Centre also conducts research of practical character concerning organic optoelectronic devices, sensors for fast biochemical analysis, the technology of developing new nanostructures of metal oxides for photocatalysis and gas sensors, memory M-RAM and STT-RAM, and nanostructures of spin logics.

Within the field of materials engineering, research is carried out into the mechanisms of plastic deformation and strengthening in metallic materials, the properties of metals and alloys after significant plastic deformation, layered materials and coatings, as well as gas absorption in metals and alloys. New metallic materials designed for particularly hard conditions are also a subject of research.

In the field of ceramic materials, the Academic Centre of Materials and Nanotechnology conducts research into self-developing high-temperature synthesis of nanocomposites of unique physicochemical properties, as well as the development of nanosuspensions of controlled rheological properties, suitable for shaping with the use of rapid prototyping methods.

www.acmin.agh.edu.pl
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5. Faculty of Computer Science, Electronics and Telecommunications
6. Faculty of Mechanical Engineering and Robotics
7. Faculty of Geology, Geophysics and Environmental Protection
8. Faculty of Mining Surveying and Environmental Engineering
9. Faculty of Materials Science and Ceramics
10. Faculty of Foundry Engineering
11. Faculty of Non-Ferrous Metals
12. Faculty of Drilling, Oil and Gas
13. Faculty of Management
14. Faculty of Energy and Fuels
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26. AGH UST Academic Computer Centre CYFRONET
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31. Career Centre
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General purpose of facilities:
- research and teaching facilities
- student houses at AGH UST campus
- service outlets
We create solutions

which change the future