



**Pioneer of  
3rd Generation  
Universities  
In Turkey**



# Pioneer of 3rd Generation Universities In Turkey



ABDULLAH GÜL  
UNIVERSITY



*“Education stands out as the greatest source of motivation and the most significant factor that will contribute to Turkey to reach the aspired levels on the forthcoming 100th anniversary of the establishment of the Republic. While conversing earlier, students asked me brilliant questions which really impressed me. They enquired also, what qualities would I look for in a graduate. Let me put it this way: I would like to see the graduates of this University to be qualified enough to work not only in Kayseri or in Turkey but in every part of the world, for that matter. Turkey, Kayseri and AGU have the capacity to provide all resources to make this possible.”*

**(Speech for AGU Academic Year Opening Ceremony - 25.10.2013)**

*“Human capital is the most valuable asset for countries such as Turkey with large populations but inadequate natural resources. To benefit from this asset to its maximum potential, it is necessary to combine the human capital with the issue that I have explained before.”*

**(Speech at Harvard University - 30.05.2014)**

*“We need to create a competitive university with robust self-esteem and strong patriotic feelings, open to other cultures and able to stimulate inquisitive minds.”*

**(Speech for AGU Academic Year Opening Ceremony - 17.10.2014)**

**Abdullah Gül, 11th President of the Republic of Turkey**



The Abdullah Gül University (AGU) is a research-oriented University embracing multi-disciplinary research and innovative approaches to meet global challenges and, to date, ranked among the best Turkish universities in terms of research performance.

All our Programs are offered in English and students are taught in a multicultural environment promoting social awareness and inclusion for all, by renowned professors with international experience. As part of our hands-on training approach, they systematically have the opportunity to apply their newly acquired knowledge within the frame of research projects.

With this in mind; we, at AGU, look forward to broadening our and our Students' horizons through the creation of strong international collaborations and partnerships and welcome the opportunity to work with you for the benefit of higher education.

**Prof. Dr. İhsan Sabuncuođlu**  
**AGU Rector**

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AGU

AGU

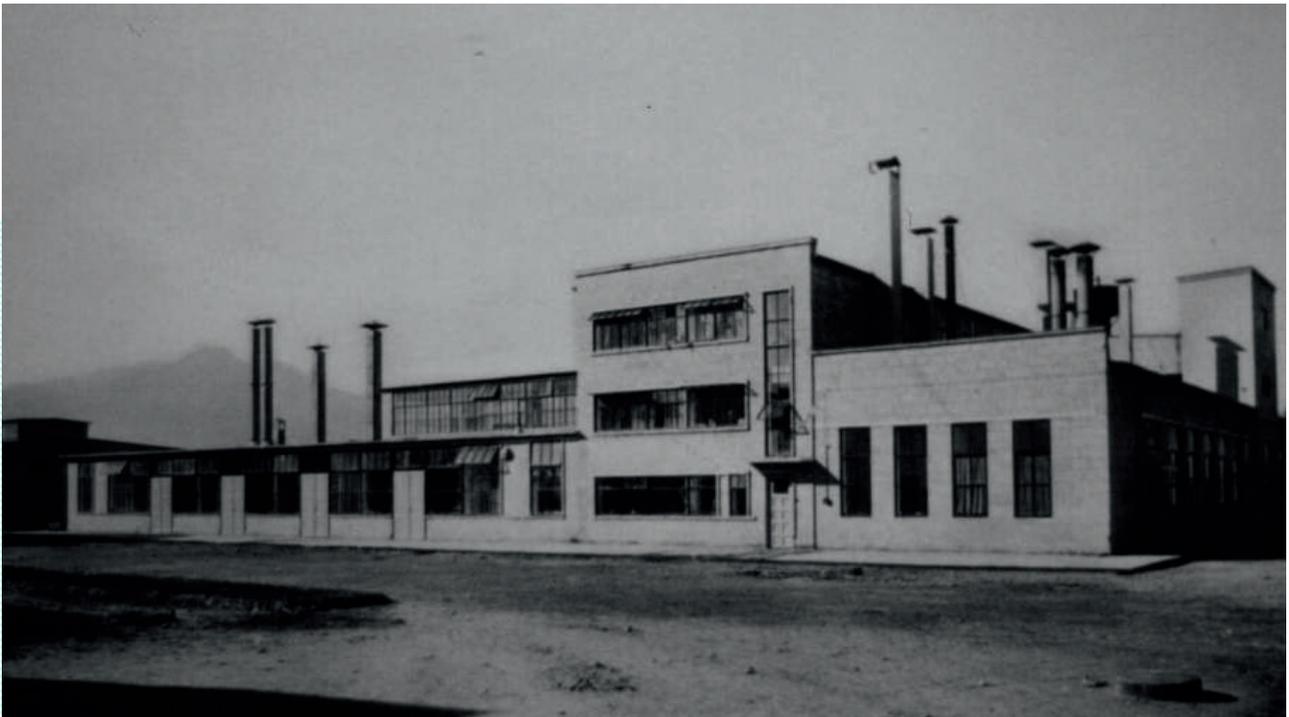


# HISTORY

# History of Abdullah Gül University

Abdullah Gül University (AGU), a State University supported by a philanthropic foundation (AGUV) and the first of its kind in Turkey, was established on 21 July 2010. The first students were accepted in the 2013-2014 academic year. The university project transformed one of the earliest and largest industrial complexes of the Republic of Turkey, Kayseri Sümerbank Textile Factory, into a campus of higher education. The construction of a second campus named after Mimar Sinan, the chief architect of the most glorious period of the Ottoman Empire, also born in Kayseri, continues as well.

The efforts towards the establishment of a second State University in Kayseri began in 2007 with an initiative of the city's various institutional leaders. The university was named after the eleventh president of the Republic of Turkey, the Honorable Abdullah Gül, another Kayseri native, highlighting the strengths of the city in the field of education and the nationally accepted merits of its citizens in economic development and entrepreneurship. AGU would be developed to high standards, creating a difference in Turkish Higher Education.





**AGU is the first and only State University supported by a foundation in Turkey**

### **Abdullah Gül University Foundation (AGUV)**

AGUV, established on 13 July 2011 with the sole purpose of supporting Abdullah Gül University on its path to become a world university, brings together the leaders of Turkish industry and business.

In addition to providing financial support, AGUV is a model of cooperation, focused on mutual vision and mission statements with the university for the achievement of its goals.

The primary support areas of AGUV include,

- Scholarship support for successful students,
- Support for the economic, social and cultural expectations of the faculty members and administrative staff,
- Developing the educational and technological capacity of the university and enhancing its research infrastructure.



## Honorary President

His Honorable Abdullah GÜL, The Eleventh President of the Republic of Turkey

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### Board of Directors, Ex Officio

Ahmet Kamil Erciyas  
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### Board of Auditors

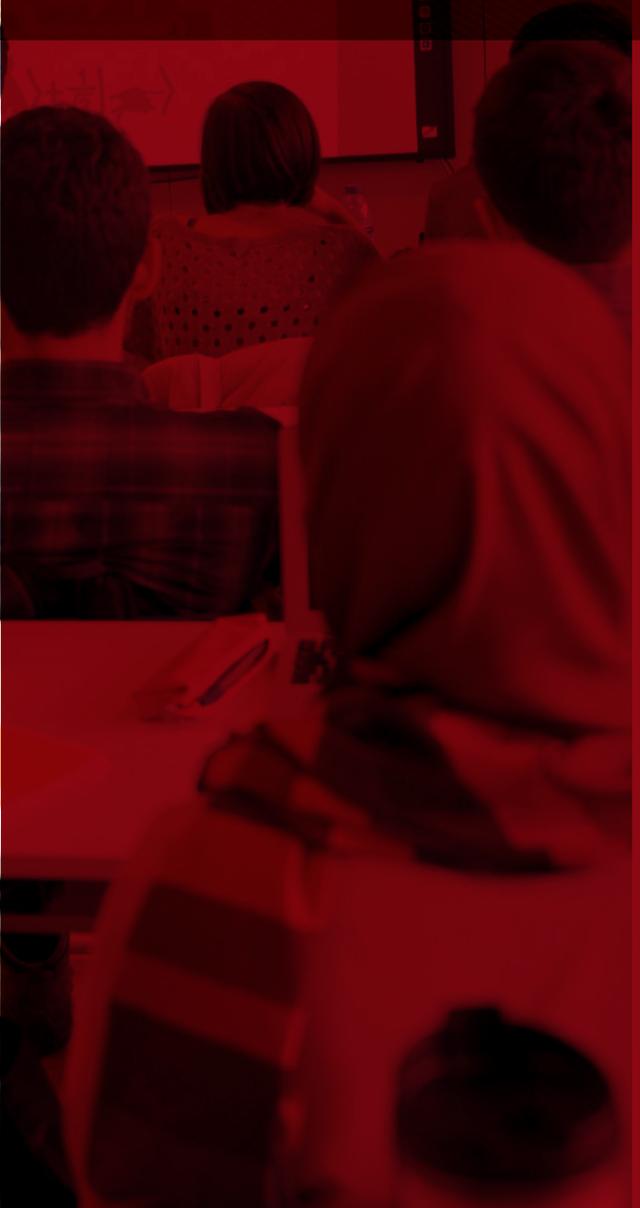
Emin Bayraktar  
Hüseyin Bayraktar  
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### AGUV Honorary Members

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Ali İsmail Sabancı  
Demir Karamancı  
Erman Ilıcak  
Ferit Şahenk  
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Kadir Has Vakfı  
Kayseri Organize Sanayi Bölgesi  
Tav Tepe Akfen Yatırım A.Ş.  
Tepe İnşaat Sanayi A.Ş.  
Vehbi Koç Vakfı



# THE THIRD GENERATION UNIVERSITY CONCEPT





AGU, the first State University with an educational foundation in Turkey, is a pioneer of a new generation of universities. AGU defines itself as a state-of-the-art Institution of higher education which, as well as transmitting accepted knowledge, generates new knowledge via innovative education and research to benefit society.

Today the concept of the traditional university is being re-defined. AGU seeks to transform this concept by eliminating the alienation that historically exists among various departments and faculties of the traditional university. This transformation requires multi- and transdisciplinary work that renews the mutual dependency of education and research.

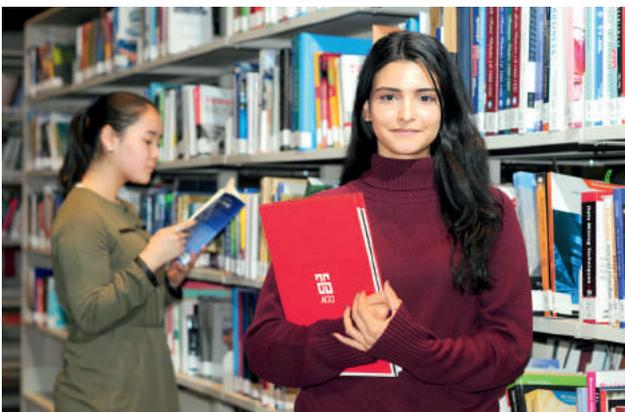
**The AGU Vision:**

“To be a prestigious international university that has internalized innovation and creativity, produces information and contributes to the science and society at a high level by transforming information to value”

**The AGU Mission:**

“AGU, as a research university seeking solutions to global challenges through partnerships and learner-centered approaches, aims to develop citizens who can shape the future by converting knowledge into personal and social values”

AGU has embraced the vision of becoming a pioneer of Third Generation Universities. It is being structured as an Institution of innovation and entrepreneurship with the support and contribution of the ideas of more than six hundred national and international academicians, representatives of business and industry, and stakeholders from various NGOs and public Institutions.



**Abdullah Gul University (AGU) - a pioneer of a new generation of universities**



### The Concept Of “Third Generation University”

Universities serve three basic functions: Education, Research and Societal Impact. The First Generation Universities such as Bologna in the 11th century focused solely on education. Humboldt, with its focus on research, became a pioneer of the Second Generation of Universities in the 19th century. Today, Second Generation of Universities such as the Massachusetts Institute of Technology (MIT) integrate Societal Impact with Education and Research.

AGU’s concept of the Third Generation University focuses on redefining the functions of Research and Education as a form of Societal Impact.

As a pilot university, AGU is an innovative research and development project supported by the Turkish Ministry of Development.

### The Need For Third Generation Universities

There are three important justifications for Third Generation Universities:

**1. Integrated Added Value:** With the ever growing usage of limited resources by the universities, the necessity arises for the transformation of research and education into added value for the society.

**2. Integration Of Real Life Issues:** A greater need is felt toward developing the students’ abilities to meet global challenges and real-life issues. In many undergraduate and graduate programs, however, the students became estranged to their professional ambitions and areas of expertise.

**3. University Education And Research Functions Cannot Keep Up With Developments:** Developments in information and communication technologies have a significant effect on the way we work and study. Accessing knowledge is becoming dramatically easier. As a result, universities are no longer the only source of knowledge. Traditional approaches of education and research cannot keep up with technological, social and economic changes.

### Third Generation University Principles At AGU

AGU is working towards applying Third Generation University principles in the following ways:

#### 1. A University With A Focus On Societal Impact:

With its mission focusing on societal impact, AGU targets global challenges, which will also stimulate students’ professional careers and ambitions. The global challenges were chosen according to world order and agenda including our country, Turkey, and our city, Kayseri, which are: (i) sustainability, (ii) economic order, (iii) population and urbanization, (iv) health and food, (v) democratic order, (vi) innovation, (vii) peace and security.

AGU aspires to the ways of engagement with global challenges through the provision of qualified human resources, development of technology, production of patents, founding of new start-up companies, running of industrial projects, development of economic and social policy, contribution to cultural life, and the dissemination of knowledge to the society.





## **2. A New Education And Research Paradigm With A Solid Basis In The Real World:**

Besides focusing on the production of knowledge to benefit society, AGU addresses real-world issues and problems in education and research. Real world issues do not only feed naturally into transdisciplinary studies, but also highlight the impact of education. The education and research environments at AGU are designed to converge on real life problems. Thus, students find opportunities within new learning and research experiences to develop their careers.

## **3. Blended University Functions:**

Although giving individual emphasis on Education, Research, and Societal Impact, contemporary universities are significantly lacking in the degree of integrating these three functions into their systems. While these requirements are often considered separately, AGU sets out to design the multiplicative rather than additive effect of these three interactive elements. By breaking down the walls between disciplines, the opportunity arises for real world subjects to become the work in the university's programs.

With these principles, AGU has adopted an approach of continuous research and development.

# CAMPUSES



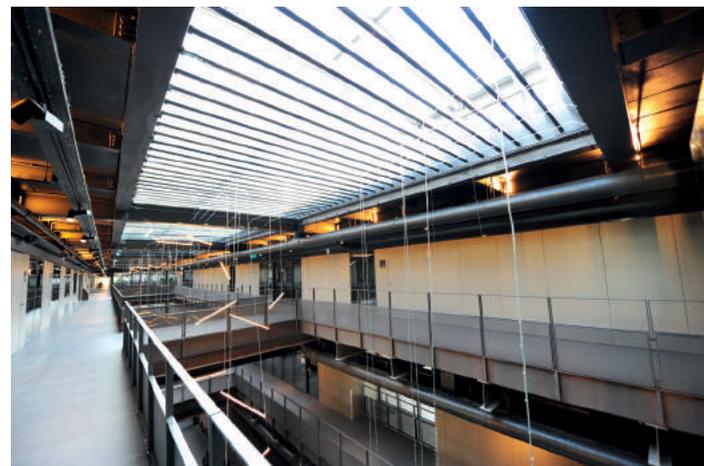
AGÜ  
SÜMER KAMPÜSÜ  
2013

## AGU Sümer Campus is an urban regeneration and adaptive reuse project for an outstanding industrial heritage site

Kayseri Sümerbank Textile Factory, one of the first and largest industrial investments of the Republic of Turkey and a heritage site since 2003, is in the process of being transformed and regenerated as the city campus of Abdullah Gül University.

Sümerbank Textile Factory, the first self-sufficient industrial venture of the Republic of Turkey began production in Kayseri in 1935, and remained to be one of the spearheads of national modernization, industrialization and economic development until it was shut down in 1999 as a result of the privatization policies. The factory complex is as striking in its architectural design as in its socio-cultural and economic role in national history. It was designated

as an outstanding example of modernist architectural movements such as Russian Constructivism, German Bauhaus and European monumental modernism, becoming one of the best preserved industrial heritage sites in Turkey. Such similar architectural heritage is being transformed into educational Institutions worldwide. Kayseri Sümerbank Textile Factory was allocated to AGU in 2012 with a similar intent. Designed by the Russian industrial architect Ivan Nikolaev, Kayseri Sümerbank Textile Factory (1935) was an internationally recognized example of modern and industrial architectural heritage with its design and multi-functional spatial structure. It was an urban focus in Kayseri with its architectural and planning approach as well as its cultural and recreational facilities.





**AGU embraces  
the cultural and  
architectural heritage  
of the Sümerbank Textile  
Factory and recognizes  
its sustainability as a  
social responsibility**





The new administration and education building, designed by EAA Architects (Emre Arolat, Natali Tombak, Istanbul) and opened in October 2014, was the winner of the category of "Education, Future Projects" at the World Architecture Festival (WAF) in Singapore in 2012. It also received the "Best Campus in Turkey" prize in a competition held by Capital and Ekonomist magazines.

With contemporary, environmentalist, intelligent and sustainable planning approaches AGU is transforming and regenerating Sümerbank Textile Factory into a city campus where, in addition to education and research, the university will meet Kayseri's citizens and entrepreneurs in the social and cultural spaces that are being recreated.

The buildings forming the AGU Sümer Campus, all original works of modern architecture, are being transformed with restoration and adaptive reuse projects as a research and social responsibility project by the AGU School of Architecture (faculty members Burak Asiliskender and Nilüfer Yöney).

In addition to its central urban location in Kayseri, AGU Sümer Campus is also one of the largest green areas in the city with its original landscape and endemic flora. The Power and Steam Plants of the complex have been restored as Abdullah Gül Presidential Museum and Library.



## AGU Sümer Campus is being structured as an urban hub



AGU's main campus, located on Kayseri's urban periphery and named after one of the greatest artistic and architectural geniuses of world history, Mimar Sinan, represents the university's vision of Higher Education's Third generation.

The architectural project designed by Çirakoğlu Architects (Alişan Çirakoğlu, Ilgın Avcı, İstanbul) won the National Architectural Prize of the Chamber of Architects of Turkey in 2014.

Based on a contemporary university planning approach, faculty offices, classrooms and research laboratories are designed as flowing and intersecting spaces forming the new spatial interfaces of multi- and trans-disciplinary research and study environments.

## AGU is simultaneously building the Mimar Sinan Campus with its New Generation University approach





**AGU Mimar Sinan  
Campus has  
received a national  
architectural prize  
with its design idea  
and concept**



# STUDENTS



### **AGU Students**

Most academic departments at Abdullah Gul University are ranked among the top five in Turkey according to the results of the national university entrance exams.

### **Being An AGU Student**

By bringing together distinguished faculty members and students, AGU aims to produce citizens who will shape our future.

AGU offers extensive opportunities to its students in order to achieve this aim.

### **AGU - The Choice Of The Best Students**

AGU is the highest-ranking university in the national

university entrance exam in Turkey among the 100 State and private universities founded in the last 10 years.

### **AGU Offers Extensive Opportunities**

Since its creation and with the support of the Abdullah Gül University Foundation (AGUV), AGU has:

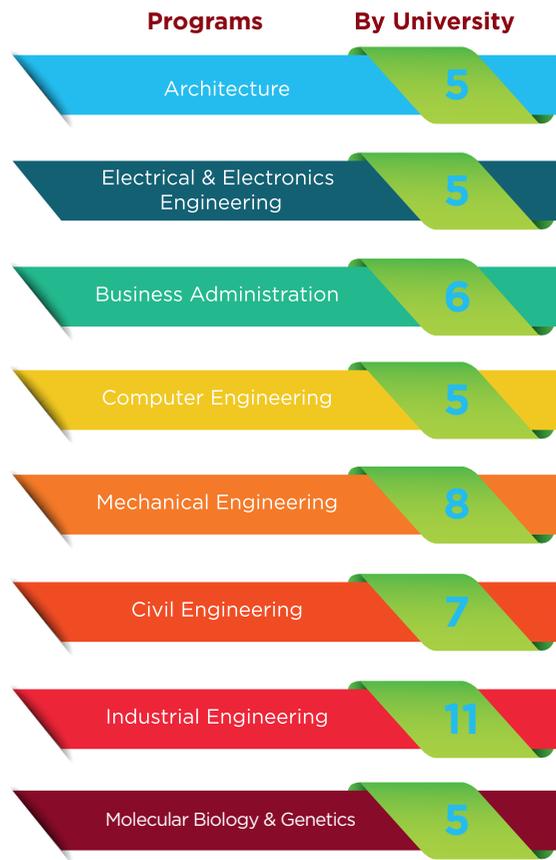
- provided 72% of its students with living allowances, along with free education at a State University,
- awarded free ESL education in the USA to 59% of its students,
- offered 60% of its students free room and board,





**The Abdullah Gül University In The 2017 National State University Rankings\***

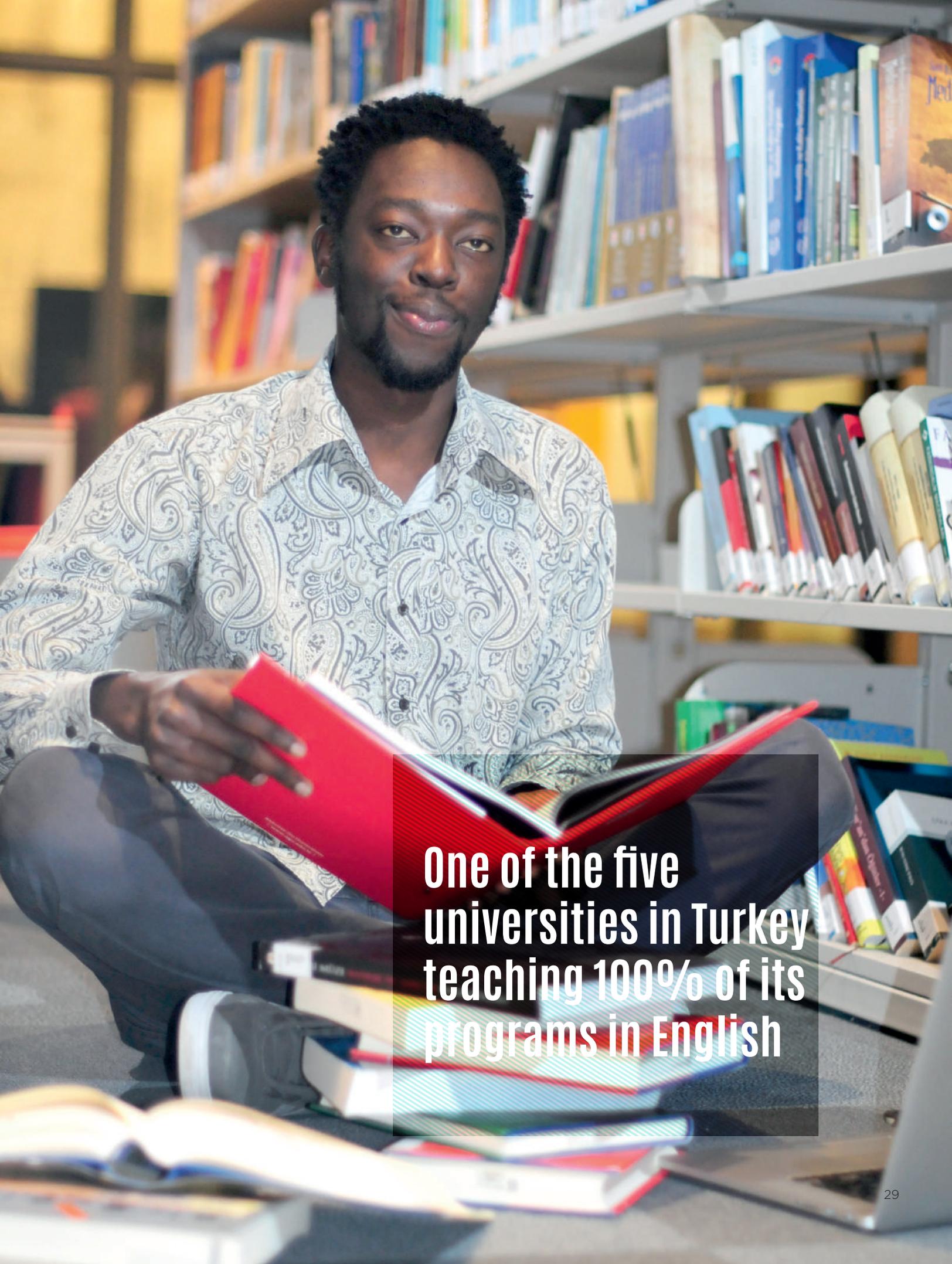
*All AGU Undergraduate Programs In The Top 8 Out Of 114 Turkish State Universities*



*\* Based on applicants' results for the 2017 National University Entrance Exam*

**AGU Is A Gate To The Globalized World**

- AGU is one of the five universities in Turkey teaching 100% in English
- Global responsibilities form the focus of Education and Research programs at AGU
- AGU aims to provide all students with international experience
- 59% of the current students have benefited from ESL education in the USA after completing the program at AGU while 20% have expanded their international experience in Europe through youth exchange programs of the AGU Youth Factory
- In accordance with its internationalization strategy, AGU currently has faculty members and students from more than 50 different countries. 52% of AGU ESL School lecturers are native speakers.



**One of the five  
universities in Turkey  
teaching 100% of its  
programs in English**



**STUDENT**  
**DEVELOPMENT SERVICES**

# Discover yourself at AGU

As well as academic progress, AGU highlights the importance of social, cultural and intellectual development of its students. With the aim of creating a world citizen, the university provides services to support the students' personal, emotional, social and professional development.

## Career Counseling

The AGU Career Counseling Model supports the students not only in making the best career plans by helping them discover their personal traits, skills and interests but also in achieving their career goals by taking active part in professional life and improving their competencies.

## Guidance Center

The center provides counseling for any academic, psychological and social problem students may face in their adaptation to university life, and helps them in their preparation for life after university.

The Peer Guidance Program orients and integrates new students through the guidance of experienced students while improving their leadership, communication, problem-solving and teamwork skills.



## AGU Student Clubs

Student-led club activities in several fields such as arts, sports, nature, environment, science and technology promote the awareness and improve the skills of leadership, communication, negotiation, teamwork, civic service, management and organization.

### Current Student Clubs Include:

- *Science and Technology Club*
- *Music and Performing Arts Club*
- *International Club*
- *SignShine Club (introduction to sign language)*
- *Sports Club*
- *Cycling Club*
- *Engineering Management Club*
- *Ski Club*
- *Photography Club*
- *Design Club*
- *Youth Club*
- *Strategy Games Club*
- *Communication Club*
- *Construction Club*
- *IEEE Club*





# AGÜ YOUTH FACTORY

International System  
Education (Formal and

AGÜ HATIRASI



AGU Youth Factory's aim is to ensure that young citizens contribute to society by providing them with the knowledge, education, support and guidance they need.

AGU Youth Factory is a learner-centered structure with both national and international activities, helping students acquire life skills and an international vision, encouraging them toward innovation and entrepreneurship, supporting them in joining community life and creating opportunities for them to enjoy learning and producing together.

AGU Youth Factory carries out the following activities:

- Strategic cooperation with more than 200 Institutions in over 50 countries
- ISYEC "Challenges and Opportunities in International Youth Employment" Symposium held at AGU in 2014
- Raising funds for NGOs through cooperation with Robert Bosch Foundation
- Guidance for the European Voluntary Service (EVS) accreditation processes

- The dissemination of youth information from Eurodesk
- Support for Community Volunteers Foundation's "Social Entrepreneurship at Universities" Project
- AGU TALKS: Inspirational conferences for youth
- Mentoring and internship opportunities, e.g., with successful female entrepreneurs (APCO)
- 'Career Chats with Leaders of the Future' through AMCHAM
- Representation of Turkey within 33 countries through the 'IdeasLab' activities
- DYPALL Network Project "The Integration of the Youth into Local Administration Processes" execution committee membership
- Erasmus+ "YouthWorker Movement" Project
- Erasmus+ Internship Consortium

**Towards a better society for you(th)**





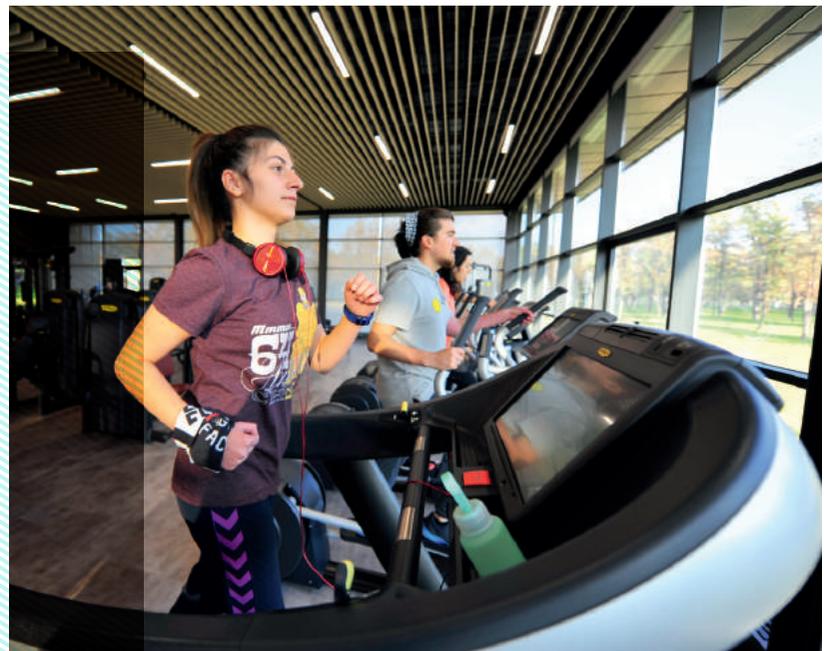


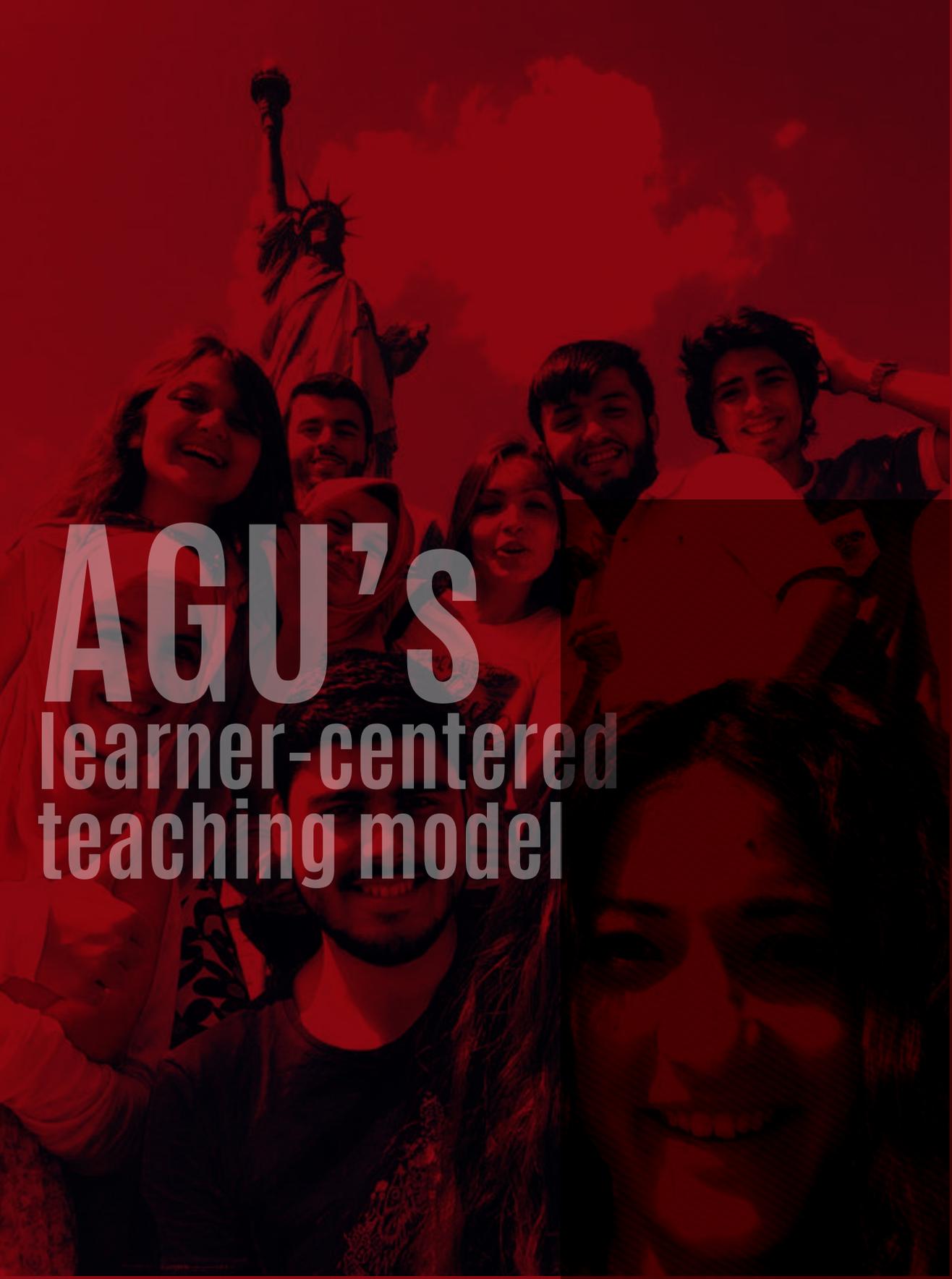
# Sports at AGU is a part of Campus Life

AGU provides its community with opportunities to join sports activities. High quality exercise and training programs help participants acquire sports skills, but also aid their physical, social, emotional and intellectual development.

With this aim in mind, AGU provides courses for skiing, snowboarding, ice-skating, horseback riding, tennis, table tennis, modern dance, Turkish folk dancing, orienteering and step/aerobics. University teams participate in events and tournaments organized by the Sports Federation of Universities in Turkey.

AGU's long-term aims include contributing to the training of premier sportsmen and women who may represent Turkey in the Olympics.





# AGU'S learner-centered teaching model



### **A Skill-Based Language School Model**

The AGU School of Languages, with its focus on skills performance, authentic assessment and opportunities for overseas learning, presents an up-to-date model of language learning and teaching. Since all faculty programs are taught using English as the medium of instruction, incoming students who cannot demonstrate a requisite level of proficiency in English are obliged to study in the language school's English preparatory program, before they start their freshman courses. Features of the Prep Program include class sizes of 12-18 students, dedicated assessment (based on performance related criteria) for each of the four skills of Reading, Writing, Listening and Speaking independent of each other, and a system of credit acquisition for individual courses by level. This credit system allows students and administrators to see at a given point exactly where in the Program a given student is, and it also precludes the need for an end-of-year final, proficiency style examination; if students have acquired the requisite number of credits for graduation from the Prep Program they are deemed to have demonstrated themselves sufficiently proficient to take on faculty level courses in English. The teaching staff of the Language School is international with local instructors constituting some 40% of the total number of teachers.



### **Global Challenge-Based Core Curriculum**

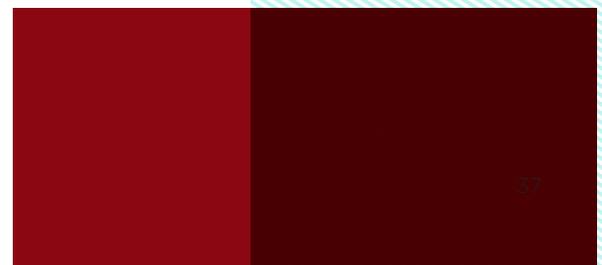
The curriculum presents various subjects such as social sciences, math, science of nature etc., approaches shaping the modern world, scientific thinking and research techniques, and global challenges using different perspectives. Every AGU student, regardless of their field of study, takes similar classes as part of a core program.

### **AGU Core Curriculum Is A Novel Design**

The unique features of AGU core curriculum are as follows:

This curriculum;

- has been constructed by all AGU contributors (instructors, students and university management) and other related parties
- places global challenges at its center, and has exemplary innovative and unique designs
- includes modular courses about global challenges designed by professors from various disciplines
- fosters personal and professional development of students
- relates current local and global challenges with course content
- encourages students to work on group projects that relate to real life problems with interdisciplinary faculty guidance
- stresses the importance of Design Thinking



### The Professional Practice Program

This flexible program aims at helping students gain work experience before graduation, and differs from one department to another. Departments adopt an applied education model based on university-business cooperation.

The characteristics of the program include:

- AGU students, from their 2nd year, gain work experience at three levels of displacement, including Kayseri, other cities in Turkey, and abroad;
- Work experience requires assiduous cross-disciplinary work.
- Students gain experience from Far East countries such as Japan, China, Hong Kong, Korea etc., as well as the USA and Europe.
- A mentor is appointed to each student.
- Students harness their vocational passion with a professional attitude, through the projects they complete, to create a difference in their work place.

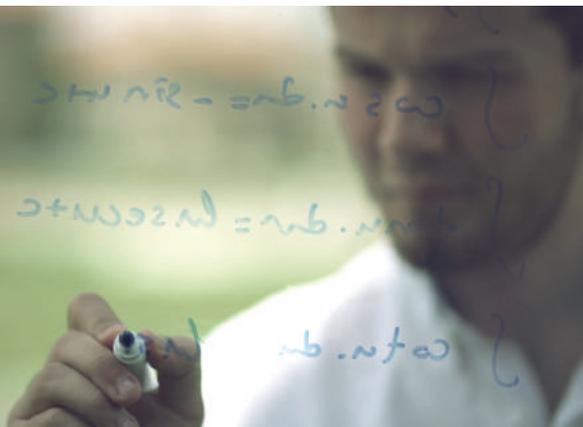


### The Learner-Centered Teaching Approach

AGU transforms the students' attitude from conventional teacher-centered method to a learner-centered approach. In this respect, AGU emphasizes the design of physical teaching environments with technological teaching tools to support active learning.

With this in mind, AGU faculty

- help students understand that learning is a mutual responsibility
- emphasize peer learning in and outside class environment
- help students self assess their learning
- collect timely feedback from students on their learning performance



- consider individual learning styles
- encourage students to participate actively in class by using different teaching methods such as team work, project learning, and learning by doing
- make students ready for personal and professional life
- redefine the role of the educator as a guide to facilitate learning

### **AGU Learning Outcomes**

With its originally designed and implemented core curriculum, individual department curricula, professional experience programs and all other social and cultural opportunities offered at the university, AGU aims to equip its graduates with the following knowledge, skills, experience and values:

- Innovative, creative and critical thinking with inter- and transdisciplinary approaches
- Awareness and understanding of local, national and global challenges, and taking responsibility in being part of solutions
- Acquiring scientific thinking and research skills
- Attaining effective communication skills in multiple languages for use in international and multicultural environments; valuing and respecting cultural differences
- Developing respect and passion for their profession; embracing and applying ethical values in personal and professional life
- Knowing and understanding their own knowledge and skills, easily adapting to changing circumstances and embracing the idea of lifelong learning
- Having the responsibility for self-learning; working efficiently in collaboration with others





# AGU ACADEMY

# AGU Academy: The Center for Continuing Education



AGU Academy is working to convey the body of knowledge and experience accumulated at the university to all stakeholders beyond the university's regular students, and to create added value in this process.

With full funding from KOSGEB (Small and Medium Sized Industry Development Organization of Turkey), business owners and their employees in Kayseri are offered thorough and continuous training in the following areas: (1) Management Processes, (2) Financial Literacy, (3) Marketing, (4) Production Management, and (5) Human Resources Management.

AGU Academy offers training and international certification services for various age groups.

AGU Academy founded the AGU Teens program, which targets the development of English language skills of elementary and secondary school students with the help of the AGU School of Languages teaching staff.

AGU via its Academy is a certified SAT Test Center (Standardized Aptitude Tests) a requisite for acceptance to universities in the USA). It is also in the process of establishing an online TOEFL Test Center. (Test of English as a Foreign Language)



**The AGU Academy  
cooperates with  
various public and  
private Institutions  
for the training of  
their employees**



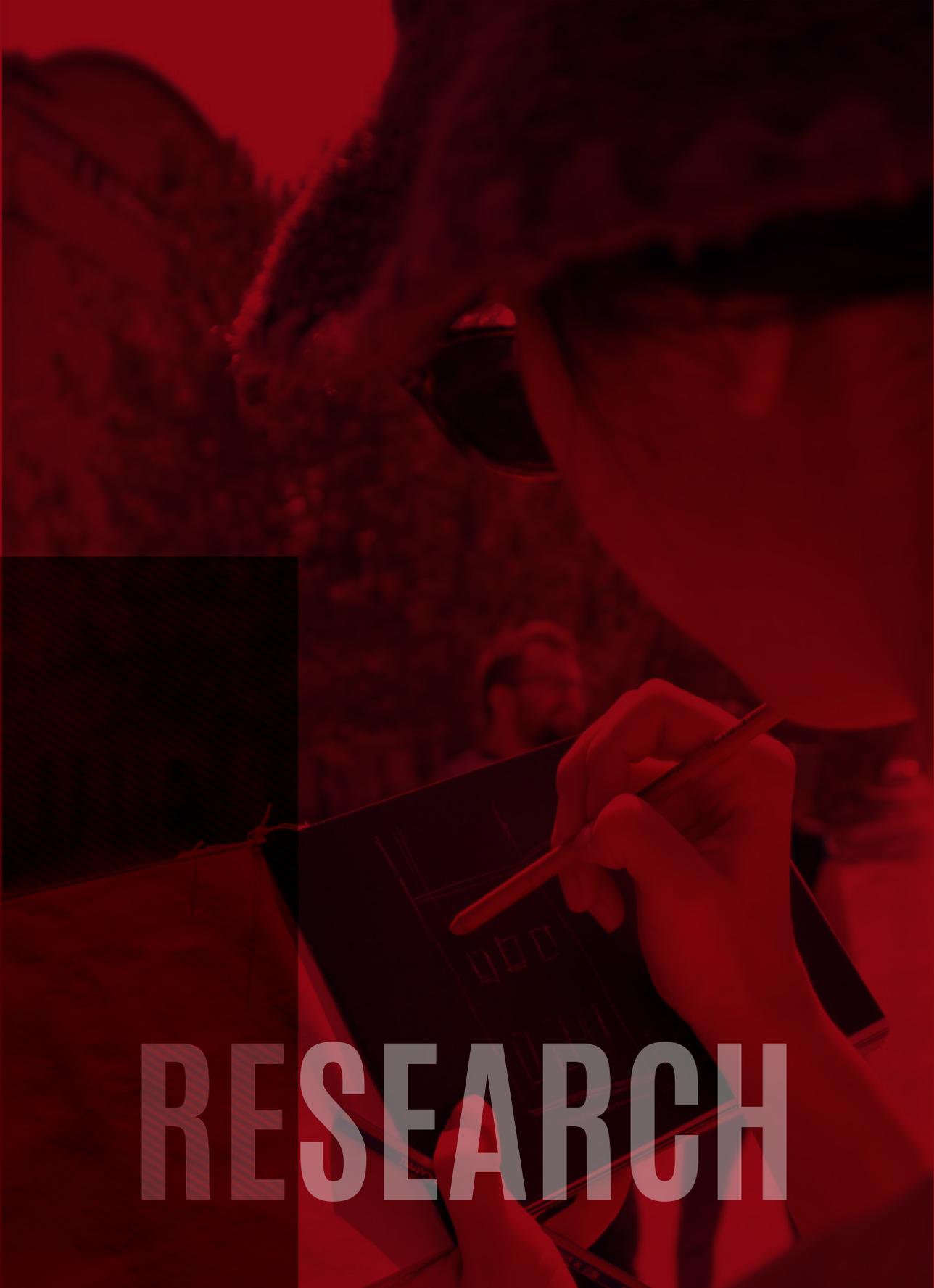
# CHILDREN'S UNIVERSITY



## AGU Center for Gifted Children

AGU CGC identifies gifted children and provides a supportive university campus environment for them to recognize and fully develop their talents. Exposing them to an appropriate top-quality program of learning at an early age allows them to become conscientious, content citizens who contribute to society.





# RESEARCH



AGU research programs aim to make original contributions to academic literature with internationally recognized faculty and to support the economic, technological and social development of society.

The faculty are focused on applied and strategic areas in various sectors such as energy, telecommunication, nanotechnology, smart and sustainable cities, and health in their interdisciplinary research projects.

AGU is equipped with nanotechnology, optics, photonics, telecommunication, high performance calculation, biomedicine, material, architecture, construction, and mechanics laboratories competent by global standards, which are used in teaching, experimental research and R&D projects.

AGU is ranked among the top universities in Turkey according to the number of scientific publications and citations. The number of scientific papers published in international indexed journals per faculty member was 1.53 while the number of citations per faculty member was 34 in 2014. These numbers are well above the average in Turkey.

The scientific output of AGU is based on project focused R&D activities. These projects receive support from various industrial and public Institutions such as TÜBİTAK (The Scientific and Technological Research Council of Turkey), the European Union and the World Bank.

AGU guides and directs its students and researchers about intellectual property rights, patenting, licensing and starting up new companies.

One of the most significant features of AGU is the strong emphasis on research and training scientists. The university is proud to provide a one-to-one student-to-faculty ratio in its research programs. This strategy enables students to take part in scientific research and obtain academic experience while continuing their education at both graduate and undergraduate levels.



**AGU is an Innovative and Entrepreneur University Seeking Solutions for Global Challenges**

## Academic Achievements

AGU faculty have degrees from nationally and internationally acclaimed universities, and have worked at prestigious research Institutions as qualified doctoral and post-doctoral fellows. AGU also employs a large number of international academics.

The academic achievements of the faculty are evident in the scientific awards they have received.

### 2013

Assoc. Prof. V. Çağrı Güngör, Ph.D., TÜBA (Turkish Academy of Sciences) Outstanding Young Scientist Award

Assist. Prof. Hümeysra Çağlayan, Ph.D., TÜBA (Turkish Academy of Sciences) Outstanding Young Scientist Award

### 2014

Prof. Yusuf Baran, Ph.D., Science Heroes Association Young Scientist of the Year Award, FABED (Feyzi Akkaya Fund for Supporting Scientific Activities) Eser Tümen Excellence Award

Assoc. Prof. Hakan Usta, Ph.D., BAGEP (The Science Academy Young Scientists Award Program) Outstanding Young Scientist Award

Assist. Prof. Evren Mutlugün, Ph.D., FABED Eser Tümen Excellence Award, BAGEP (The Science Academy Young Scientists Award Program) Outstanding Young Scientist Award

Assist. Prof. Ahmet Erdem Tozoğlu, Ph.D., METU (Middle East Technical University) Graduate School of Social Sciences Doctoral Dissertation of the Year



### 2015

Prof. Yusuf Baran, Ph.D., Dr. Nejat F. Eczacıbaşı Medical Science Award

Assoc. Prof. Hakan Usta, Ph.D., TÜBA (Turkish Academy of Sciences) Outstanding Young Scientist Award

Assist. Prof. Hümeysra Çağlayan, Ph.D., L'Oréal & UNESCO Turkey National Women in Science Award

### 2016

Prof. Yusuf Baran, Ph.D.; Outstanding Young Scientist Award, Turkish Experimental Hematology Association

Prof. Yusuf Baran, Ph.D.; Honor of election for Science and Diplomacy Program, by The World Academy of Sciences and American Association for the Advancement of Science

Assoc. Prof. Dr. Vehbi Çağrı Güngör, Ph.D.; Science Heroes Association, Outstanding Young Scientist of the Year Award

Assoc. Prof. Dr. Hakan Usta, Ph.D.; Science Heroes Association, Outstanding Young Scientist of the Year Award

Assist. Prof. Dr. Evren Mutlugün, Ph.D.; Honor of election for Global Young Academy Membership

### 2017

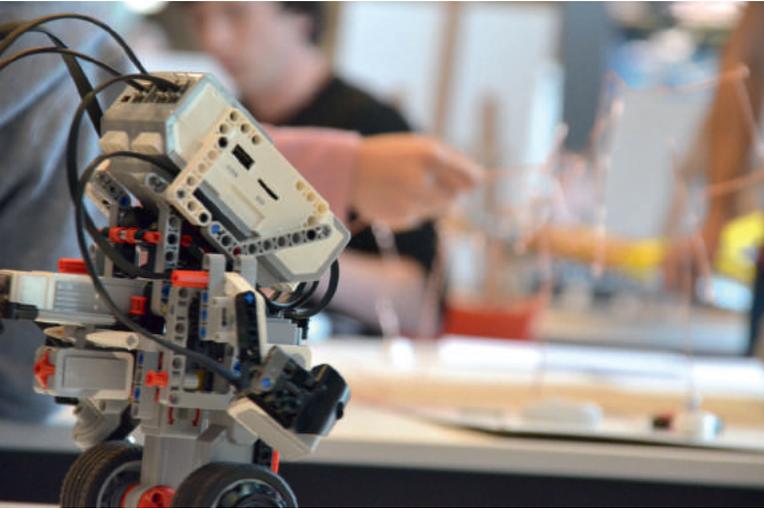
Assoc. Prof. Dr. Evren Mutlugün, First Place Award Leaders in Innovation Fellowships, Royal Academy of Engineering, United Kingdom,

TÜBA (Turkish Academy of Sciences) Outstanding Young Scientist Award

Assoc. Prof. Dr. Vehbi Çağrı Güngör, Science Academy's Young Scientist Awards Program (BAGEP)

**AGU contributes to the pool of qualified scientists in Turkey by reversing brain drain**





## AGU prioritizes research and development focused university-industry cooperation

All students at AGU acquire project based real life experience by working at prominent companies in inter- and transdisciplinary teams, contributing to product and process design.

### Select University-Industry Cooperation Projects:

- Damage inspection on buildings and bridges via wireless receivers (Supporting Institutions: Turkcell and TÜBİTAK - The Scientific and Technological Research Council of Turkey)
- Plasma Technologies - Thrust Engines (Supporting Institutions: TSK - Turkish Armed Forces, MSB - Turkish Ministry of Defense and Roketsan)
- Color Enrichment in Liquid Crystal Displays (Supporting Institutions: Arçelik and TÜBİTAK - The Scientific and Technological Research Council of Turkey)
- 5th generation (5G) Wireless Communication (Supporting Institutions: Asea and the European Union)
- Detection of Electrical Energy Leakage (supporting Institutions: Alcatel-Lucent and TÜBİTAK - The Scientific and Technological Research Council of Turkey)
- Cyber-attack Detection on Web Networks (Supporting Institutions: TurkNet and TÜBİTAK - The Scientific and Technological Research Council of Turkey)





# AGU Focuses on Global Challenges

Solution focused research is carried out at AGU.

- **School Of Engineering**
- Nanotechnology, Energy, Biomedical, Information and Communication Technologies
- **School Of Life And Natural Sciences**
- Cancer treatment, Genetic Diseases, Targeted Drugs, Regenerative Medicine

- **School Of Architecture**
- Architectural Design, Documentation, Conservation, Restoration And Adaptive Re-Use, History Of Architecture And Urban Planning, Urban Policies And Administration
- **School Of Leadership And Management**
- Entrepreneurship And Innovation, SMEs And Institutionalization, Sustainable Development, Service Management
- **School Of Humanities And Social Sciences**
- Gender And Women Studies, Migration Studies, European Union And Middle And Far Eastern Studies, Energy And Environmental Economics



# Interdisciplinary Graduate Programs at AGU



AGU first admitted graduate students in the 2013-2014 Fall Semester and now offers 8 different Graduate Programs in 6 different departments. Graduate students constitute 15% of the total number of students. AGU aims to increase this ratio to 50%, the international average in prominent research universities.

The medium of instruction in AGU Graduate Programs is English. The key principle of training and education in the Graduate Programs is to create high quality research output.

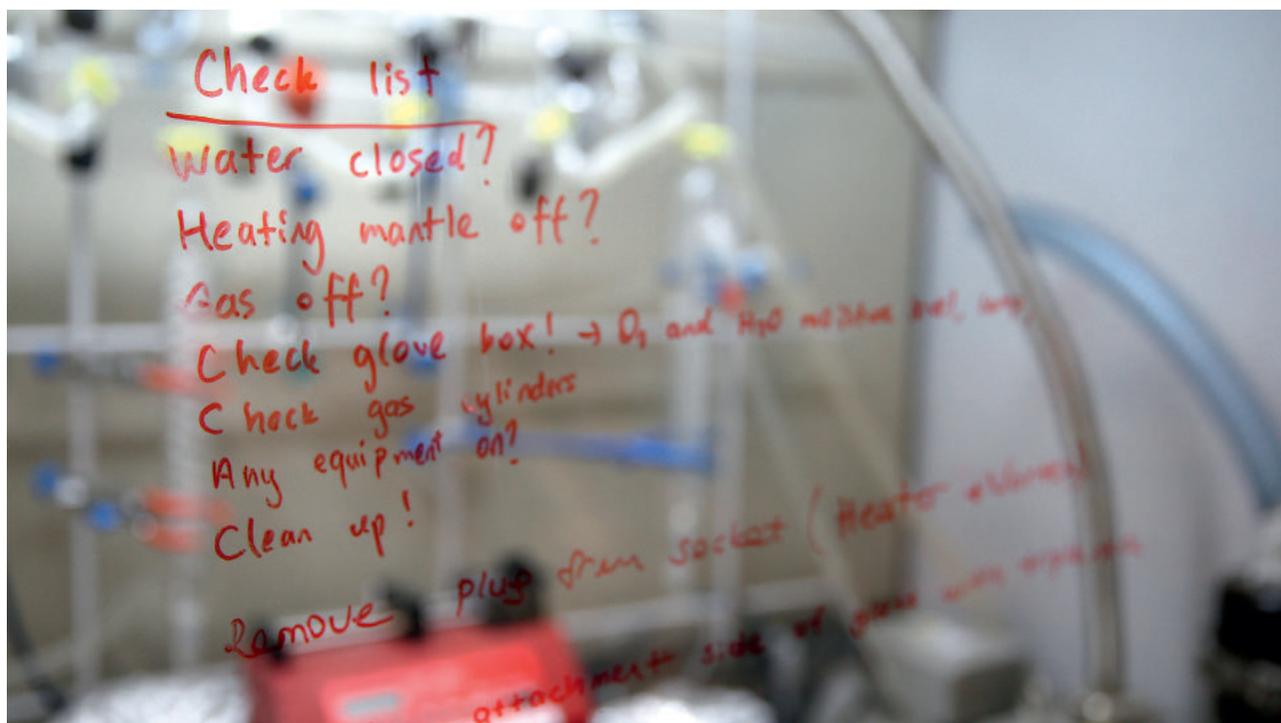
It is critical that the outcome of graduate research contributes to social, economic and scientific realms of society by meeting local and global challenges and by getting published in prestigious international academic journals. Graduate Programs at AGU include:

## Master's Programs:

- Advanced Materials and Nanotechnology
- Electrical and Computer Engineering
- Industrial Engineering
- Bioengineering
- Architecture

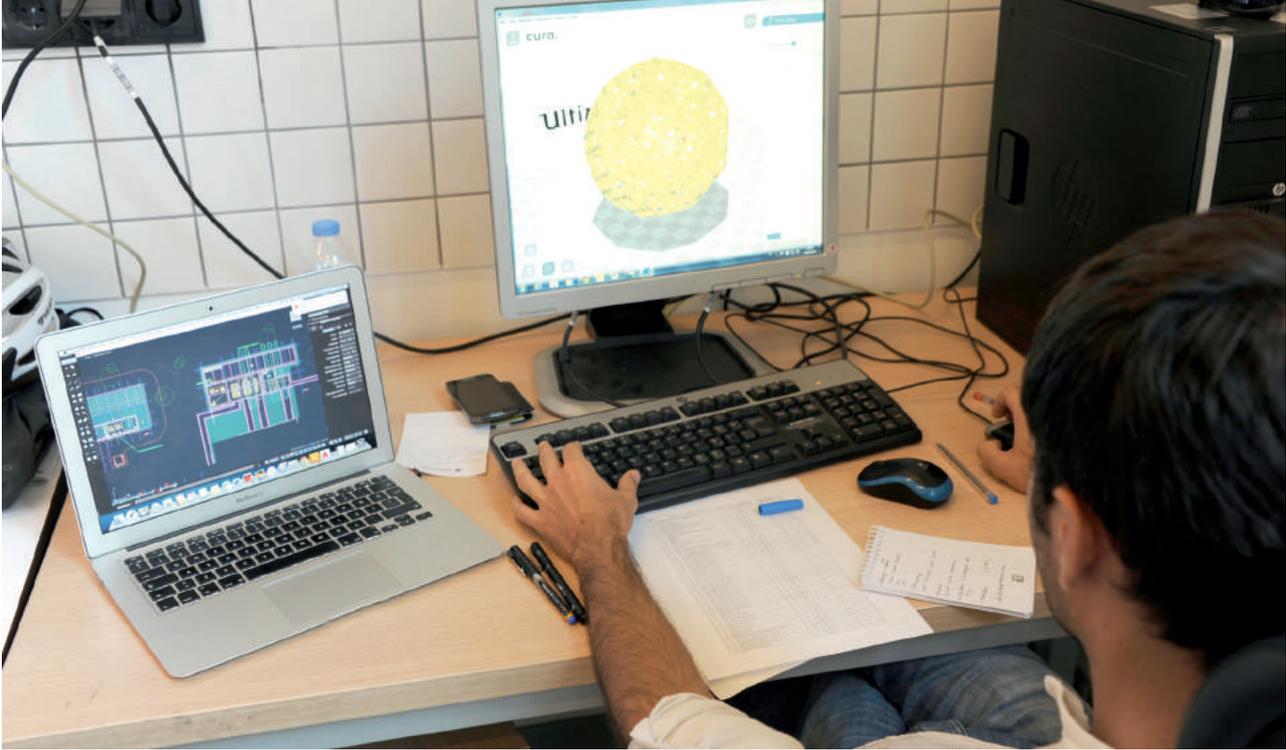
## PhD Programs:

- Materials Science and Mechanical Engineering
- Electrical and Computer Engineering
- Industrial Engineering
- Architecture





# R&D AND INNOVATION OFFICE



At AGU, it is important to transform the results of studies made within the university into economic values by commercializing them and thus making them useful for society. The university uses interfaces such as Techno Park and the Technology Transfer Office (TTO).

While most universities in Turkey attach importance to such steps long after their foundation, AGU instituted the Research-Development and Innovation Office at the time of its establishment. The main aim of this office is to promote the university's Techno Park and TTO services.

To provide researchers with techno-park services, the university partnered with the existing techno-park in the city. Eight spin-off companies founded and run by AGU faculty carry on their activities.

A national and international program of R&D provides services to researchers to write proposals, find research partners and prepare project applications to get funding. It also organizes information and training sessions for researchers to raise awareness about funds, support programs, intellectual property rights and entrepreneurship. Visits to prominent industrial enterprises in Kayseri and Turkey are carried out to promote collaboration between the faculty and industry partners. In the last two years, more than 100 companies have been contacted and joint projects have been started. With the outstanding efforts of the faculty and R&D and Innovation Office, the university ranked 17th in the 2015 for Entrepreneurial and Innovative Universities Index. This is all the more remarkable as it was the first time AGU made the list, becoming the only State University in the top 20 among 130 universities founded in the last twenty years.



## Research- Development and Innovation Office at AGU



# INTERNATIONALIZATION



## An International Hub in the Heart of Turkey

AGU aims to enhance its international profile as a world-renowned university by 2020 via the implementation of its ambitious Internationalization Strategy.

AGU is working towards becoming a multicultural hub for education, research and social entrepreneurship, impacting communities and stakeholders at the regional and international levels, by:

- Embedding an international dimension in AGU's curricula and establishing processes and structures that fully comply with international standards
- Increasing the variety, number and quality of partnerships with international Institutions, NGO's and corporations; and thus enabling all AGU students to gain international experience before graduation via exchange or joint-degree programs
- Attracting talented full-degree and exchange international students with the intent to increase and maintain their share to a minimum of 20% of the AGU total student population by 2020
- Attracting high-quality international teaching staff with the intent to increase and maintain their share to a minimum of 25% by 2020
- Joining the leading international university associations, organizations or networks; and receiving some of the most recognized and valued international accreditations by 2020
- Being ranked as one of the top 500 Universities in a prestigious world university ranking by 2020





# SOCIETAL IMPACT



## AGU produces personal and social value

AGU is an original product of social cooperation and shared dream. The resulting innovative university design is a source of inspiration to many Institutions of higher education in Turkey.

AGU redefines the basic functions of the university, education and research through its approach based on societal impact. With an integrated education and research approach, AGU cultivates skilled professionals who meet global challenges.

AGU gives priority to scientific contribution to society and to the dissemination of knowledge through research and publications.

AGU gives importance to the transformation of scientific research into commercial value through patenting and licensing.

In AGU TALKS, a series of inspiring lectures, AGU brings leading figures in finance, science, culture and the arts to its students and the citizens of Kayseri. The university also hosts various cultural events such as plays, concerts and exhibitions in cooperation with different NGOs.

AGU Library is open for the use of the community.

AGU considers it a social responsibility to help and guide youth towards a choice of profession and career, youth employability being one of the most important problems in Turkey. Faculty have visited 40 different cities nationwide and reached more than 30,000 students. Hundreds of thousands more were informed using the press and social media.

AGU works for the development of its host city Kayseri and cooperates and designs collateral projects with various organizations, including local administrative authorities, organized industrial zone, and chambers of commerce and industry.

AGU increases Kayseri's national and international recognition by attracting scientists and policy makers from different cultures who work at the university.

AGU women's basketball team represents the university, Kayseri and Turkey in Europe and encourages the appreciation of sports among the youth and especially among women.



# AGU Faculty Members

## Electrical and Electronics Engineering

İrfan ALAN, Ph.D. University of Wisconsin at Madison- USA

Bülent YILMAZ, Ph.D. University of Utah- USA

İbrahim T. ÖZDÜR, Ph.D. University of Central Florida- USA

Sergey BORISENOK, Ph.D. St. Petersburg State University- Russia

Kutay İÇÖZ, Ph.D. Purdue University- USA, Post Doc. Harvard University- USA

Evren MUTLUGÜN, Ph.D. Bilkent University, Post Doc. Nanyang Technological University- Singapore

Dooyoung HAH, Ph.D. KAIST- Korea, Post Doc. University of California, Los Angeles- USA

Ahmet ÖNEN, Ph.D. Virginia Tech- USA

Günyaz ABLAY, Ph.D. The Ohio State University- USA

Hakan AKSEBZECİ, Ph.D. Erciyes University, Post Doc. Drexel University- USA

## Civil Engineering

Burak UZAL, Ph.D. Middle East Technical University, Post Doc. Georgia Institute of Technology- USA

Cihan ÇİFTÇİ, Ph.D. University of Massachusetts- USA

Niğmet UZAL, Ph.D. Middle East Technical University, Post Doc. Georgia Institute of Technology- USA

Müge AKIN, Ph.D. Middle East Technical University, Post Doc. University of Washington- USA

Ayşegül ÖZGÜNER, Ph.D. Bilkent University

Yusuf Çağatay ERŞAN, Ph.D. Ghent University- Belgium

## Architecture

Burak ASİLİSKENDER, Ph.D. Istanbul Technical University, Post Doc. University of Manchester- England

Nilüfer Baturayoğlu YÖNEY, Ph.D. Istanbul Technical University, Post Doc. Université du Québec à Montréal- Canada

Ahmet Erdem TOZOĞLU, Ph.D. Middle East Technical University, Post Doc. Aristotle University of Thessaloniki- Greece

Mustafa Asım AYTEN, Ph.D. Ankara University

Valentina BEATINI, Ph.D. University of Parma- Italy, Post Doc. Izmir Institute of Technology

İpek AKPINAR, Ph.D. University College London- England

Muhammed Ziya PAKÖZ, Ph.D. İstanbul Technic University

## Computer Engineering

V. Çağrı GÜNGÖR, Ph.D. Georgia Institute of Technology- USA

Zafer AYDIN, Ph.D. Georgia Institute of Technology- USA

Burcu GÜNGÖR, Ph.D. Sabancı University

Şükü KURAN, Ph.D. Boğaziçi University, Post Doc. Telecom Paris Tech- France

Gülay YALÇIN, Ph.D. Universitat Politècnica de Catalunya- Spain

Kasım TAŞDEMİR, Ph.D. Queen's University - Northern Ireland

İsmail BÜTÜN, Ph.D. University of South Florida-USA

## Material Science and Nano-Technology

Murat DURANDURDU, Ph.D. Ohio University- USA, Post Doc. University of Michigan- USA

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İlker ERDEM, Ph.D. Izmir Institute of Technology

Hakan USTA, Ph.D. Northwestern University- USA,  
Post Doc. Polyera Corporation, Illinois Science &  
Technology Park- USA

Mehmet ŞAHİN, Ph.D. Selçuk University, Post Doc.  
University of Sheffield-UK, Bilkent University  
University of Arkansas- USA

Aysun Cebeci AYDIN Ph.D. Middle East Technical  
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Technology- USA

Ali DURAN, Ph.D. Gaziosmanpaşa University

### **Molecular Biology and Genetics**

Yusuf BARAN, Ph.D. Middle East Technical University

Mona EL KHATIB, Ph.D. Hannover Medical School,  
Post Doc. Hannover Medical School- Germany

Sebiha Çevik KAPLAN, Ph.D. University College  
Dulin- Ireland

Aysun ADAN, Ph.D. Izmir Institute of Technology,  
Post Doc. Medical University of South Carolina- USA,  
Post Doc. Izmir Institute of Technology

### **Bioengineering**

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Post Doc. Michigan University- USA

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University of Michigan- USA

Zenmei OHKUBO, Ph.D. The University of Michigan-  
USA

### **Mechanical Engineering**

E. Faruk KEÇECİ, Ph.D. University of Virginia, USA

M. Tarık ATAY, Ph.D. Middle East Technical University

Mehmet N. TOMAÇ, Ph.D. Ohio State University- USA

Hatice S. ŞAŞ, Ph.D. University of Delaware - USA

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University- USA

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Benay UZER, Ph.D. Koç University

### **Industrial Engineering**

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Université Blaise Pascal- France

Lale ÖZBAKIR, Ph. D. Erciyes University

### **Leadership and Management**

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Harika SÜKLÜN, Ph.D. Sullivan University - USA

Derya BÜYÜKTANIR, Ph. D. Ankara University, Post  
Doc. Georgetown University- USA

Eyüp DOĞAN, Ph.D. Clemson University- USA

Heiko SCHUSS, Ph. D. Nuremberg Erlangen University-  
Germany

### **Social Sciences**

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at Buffalo- USA, Post Doc. University of Wisconsin  
at Madison, Columbia University- USA, Oxford  
University, Anthony's College- UK

Füsun AKDAĞ AYCİBİN, Ph. D. Ohio State University -  
USA

Armağan TEKE LLOYD, Ph. D. McMaster University -  
Canada

Murat İNAN, Ph. D. The University of Sheffield -  
United Kingdom

# HEADLINES

Free accommodation for 60% of the students

The first State University in Turkey supported by a private philanthropic foundation

The forerunner of Third Generation Universities

State-of-the-Art campuses with international architectural awards

A university library open everyday to everyone

One of the five universities in Turkey teaching 100% in English

Prestigious standing in terms of the number of scientific papers published in international indexed journals and citations per faculty member.

International volunteering experience for 70% of the students

ESL education in the USA awarded to 59% of the students

**Most AGU  
undergraduate  
programs are  
ranked among the  
top five in Turkey**

**Mimar Sinan  
Campus: the  
suburban campus  
with a total area  
of 3 million m<sup>2</sup>**

**Sümer Campus:  
the city campus  
with a total area  
of 340,000 m<sup>2</sup>**

**A multicultural  
campus with over  
50 nationalities  
represented**

**A leading  
University in  
Turkey reversing  
the brain drain**

**A leading  
University in  
Turkey using  
learner-centered  
approaches**

**All faculty members  
with international  
academic  
experience**

**Scholarships  
awarded to 72%  
of the students**

**The only University in  
Turkey hosting Youth  
Factory, a center  
dedicated to non-  
formal education**

**The only University  
with a Presidential  
Museum**

**One of the  
best-ranked  
universities  
according to the  
Entrepreneurial  
and Innovative  
Universities Index  
in Turkey**

**The highest-  
ranking University  
in Turkey founded  
in the last 10 years**

**Ratio of faculty  
to students is 1/6**





Now is  
AGU  
Time



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**Kayseri, TURKEY**

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