

## Summer University in Vienna



# Green. Building. Solutions.

Be part of the transformation!

# Introduction

OeAD student housing is a non-profit student residence provider and offers accommodations for around 10,000 students annually throughout Austria.

With more than 25 years of experience, the company is a pioneer in constructing passive houses and energy efficient student residences. Drawing from his own expertise as a property developer and operator, CEO Günther Jedliczka initiated the Green.Building.Solutions. (GBS) Summer University in 2011 together with local experts and leading national universities.

“GBS is a unique program, which gains global recognition for its role in setting an agenda for green building technologies in the future. We connect the know-how we've gained over the years with future-proof ideas, concepts and solutions to educate the next generation of architects for a green transition in the building sector.”

Günther Jedliczka, CEO – OeAD student housing



With kind support of our public and funding partners:

■ Federal Ministry  
Economy, Energy  
and Tourism  
Republic of Austria



■ Federal Ministry  
Women, Science  
and Research  
Republic of Austria



# Why GBS?

The construction sector is a major factor in resource and energy use and causes a high amount of greenhouse gas emissions worldwide. To meet emerging climate goals, emissions need to be drastically reduced and renewable energy production increased. GBS takes up on those challenges and offers education for open-minded changemakers to create sustainable design solutions for our future built environment.

## About GBS

GBS is a non-profit academic program, managed and implemented under the leadership of OeAD student housing. The three-week course takes place in Vienna and aims to increase awareness and knowledge on sustainable construction worldwide. It imparts knowhow about energy efficient building technologies, resource-oriented planning, ecological construction, and sustainable design strategies via a holistic and interdisciplinary approach to our future of green builders.

## Who should join GBS?

GBS is aimed at architects, building- and civil engineers, urban-, environmental-, and energy planners, designers, as well as students from similar fields. The diverse and multicultural audience offers a unique environment where interdisciplinary exchange between like-minded people from all over the world takes place.



## Experience Vienna



Vienna lies in the heart of Europe and not only has a rich history to discover. The city has also been regarded as the most liveable city in the world repeatedly and is a pioneering city of energy efficient building!

Whether you want to explore its historic architecture, such as Schönbrunn and Belvedere, enjoy music at the State Opera, experience the Wiener Prater amusement park with its famous Ferris Wheel or take a walk along and swim in the Danube – Vienna offers a lot to unveil!

Did you know? While having about 2 million inhabitants, almost half of the city area is a dedicated green space.



Photos: pixabay.com



# Your study experience at GBS



international  
students &  
professionals

academic experts & the  
latest developments in  
green building

innovative ideas and  
concepts for a  
climate-resilient  
future

work on a real-life  
design project located  
in Vienna

visit Vienna's  
best-practice  
buildings

worldwide alumni and  
expert network

live in the first  
passive house student  
residence worldwide

certificate of the  
University of Natural  
Resources and Life  
Sciences, Vienna for  
7 ECTS

# Don't just take our word for it...



**"Across the world, we all have different types of houses and construction processes. GBS has allowed me to learn from my peers, allowing us all to collaborate and make a better - more sustainable - future. I would recommend the GBS Summer University to every student who is interested in sustainability and wants to change our future."**

Marianne Schnellmann, Schweiz, TU Wien



**"I've learned a lot, especially from my peers who have very different perspectives. It was interesting to see how the group came up with different solutions. The way we all individually process designs is very diverse - and it's been really encouraging to see that there are multiple solutions to every problem. This program really focuses on community and it's something that everybody should experience."**

Alexander Haugen, Kanada, Northern Alberta Institute of Technology



**"I would definitely recommend GBS to others. It was really nice to work together and learn from each other. We also had great lectures and the organization of the program was amazing. Vienna is a beautiful city and it was great to explore it, especially experiencing the different parts of the city through the excursions."**

Winnie de Jong, Niederlande,  
Universität Utrecht



**“I think the GBS program will have a positive impact on the built environment in the future because the insightful information given by the lecturers has been delivered to a wide variety of job roles – and I will certainly be taking the things I’ve learned back to my job, as there are certainly things to develop there. This has been one of those opportunities that has provided such a vast amount of information – and no matter how much you already know, you are always going to be able to learn more.”**

Mark Cawley, UK, Edinburgh Napier University



**“Vienna is very unique – both in people and buildings. I came to GBS to find the solutions that I can adapt and take back to my home country, where sustainable architecture is still pretty new. Learning from a leading country – like Austria – has been a great opportunity, and the suggestions from lecturers were extremely useful too.”**

Mungunzaya Munkhbayar, Mongolei, Mongolian University of Science and Technology

# Activities

- The program includes high-level talks and workshops about sustainable building and urban development, clean energy technologies, ecological architecture and future-oriented design.
- Students get to work on a real-life case study in interdisciplinary and multicultural project teams.
- A variety of excursions and guided on-site tours demonstrating Vienna's best-practice buildings





The curriculum is embedded in a range of cultural and social activities, such as a dinner at a typical Austrian "Heurigen" restaurant, a waltzing lesson, a guided bike tour to Vienna's light house projects in climate-friendly building, and sportsevenings!

# Modules of GBS

The GBS curriculum has ten modules, including a team project in the third week.

## 1 Module 1 – Urban Scale: Energy Planning

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- Sustainable urban and territorial energy concepts
- Vienna as a living lab: local applications and best practices

## 2 Module 2 – Urban Scale: Social Sustainability

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- Inclusive and gender-sensitive urban design approaches
- Cooperative, participatory, and community-based planning methods
- Socio-cultural perspectives in urban analysis and design

## 3 Module 3 – Climate and Microclimate

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- Regenerative strategies for thermal and acoustic comfort
- Indoor and outdoor comfort in relation to building performance
- Urban heat island mitigation through design and simulation tools

## 4 Module 4 – Architecture Scale: Energy Efficiency and Comfort

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- Design strategies for energy-efficient and positive energy buildings
- Passive House principles and performance criteria
- Architecture of green and low-energy buildings

## 5

### Module 5 - Carbon Neutrality & Nature-Based Solutions

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- Alternative and low-carbon building materials
- Nature-based solutions such as green roofs, green walls, and earthen construction
- Life Cycle Assessment (LCA) methodologies and carbon footprint calculation tools
- Hands-on workshops and application to ongoing project work

## 6

### Module 6 - Circular Economy

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- Urban mining and resource recovery strategies
- Reuse, recycling, and waste management of building materials
- Integration of circularity into urban development and building projects

## 7

### Module 7 - Building Systems for Renewable Energy Production

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- Heat pumps, solar thermal systems, photovoltaics, and geothermal energy
- Design strategies for on-site and decentralized energy production
- Synergies between building systems, architecture, and urban energy concepts
- Field excursion on geothermal applications in existing buildings

## 8

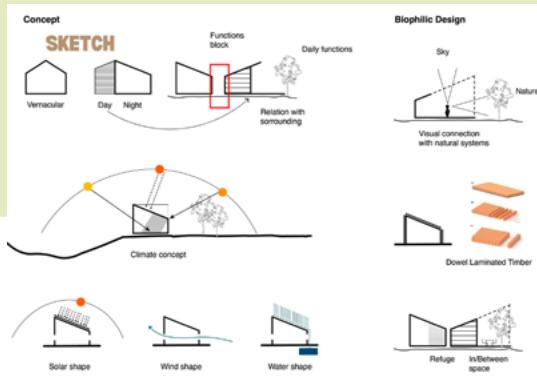
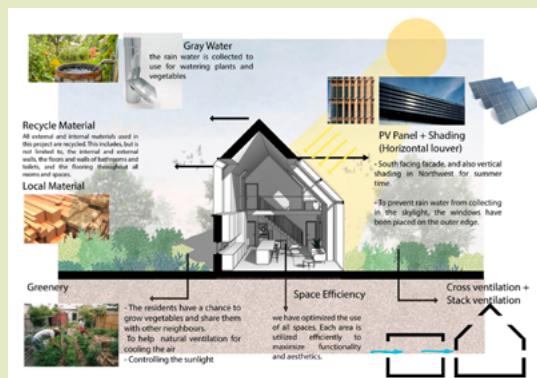
### Module 8 - Group Design Project

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# Group Work Projects



GBS participants put theory into practice in their final project work: In small groups, participants create their own building design together with their co-students, dealing with a real-life object located in Vienna. This allows to collaborate in an integrative planning process in a peer group to apply gained knowledge directly on a case study.



# Final celebrations

On the final day of GBS, project designs are presented to and evaluated by a jury of experts. Following the presentations, the closing celebration includes a moderated certification ceremony, along with networking opportunities, a regional buffet and wine, all set in the breathtaking venue of TUtheSky Vienna.



# Good to know

## What's included in the course fee?

The participation fee includes accomodation and all program points, such as:

- costs for lectures and lecture-related activities
- extra-curricular activities such as guided tours and catered events
- a cultural dinner at a typical Austrian restaurant
- public transport ticket within Vienna
- certificate of the University of Natural Resources and Life Sciences, Vienna (7 ECTS).

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## Accommodation:

Our participants stay in an OeAD student housing residence in Vienna for the entire three weeks of the program. This is included the course fee, as is the option to extend your stay for one additional week before GBS free of charge. Our students will be accommodated in a single room in a shared apartment.



Molkereistraße Guesthouse opened 2005 and was the first passive house student accommodation worldwide.



GBS since 2011:

**615** Alumni

**93** Nationalities

#### Scholarships & discounts

In collaboration with our academic partners, we are pleased to offer a limited number of scholarships for qualified students who require financial support. With a scholarship, you'll benefit from a reduced participation fee that also covers your accommodation.

#### Requirements for scholarships:

- Current master's study in a course relevant field such as architecture, urban studies, energy planning, engineering, ...
- Good study progress or average grade
- Demonstration of financial need
- Motivational letter (experience, qualifications, and skills)
- Very good knowledge of the English language
- Scholarship statement

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You can find more information about the GBS Summer University on our website! Additionally, look out for special reductions and offers!

Apply via [www.summer-university.net](http://www.summer-university.net)

If you have questions, contact us directly at [gbs@oead.at](mailto:gbs@oead.at)





## OeAD student housing

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## Our partners:

