

Summer University
in Vienna

œad 
student housing

 **BOKU**
UNIVERSITY

TU
WIEN

**Green.
Building.
Solutions.**

Be part of the transformation!

Photo: J. Konstantinov

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
Republic of Austria
Climate Action, Environment
Energy, Mobility,
Innovation and Technology

 **Stadt
Wien**

 Federal Ministry
Republic of Austria
Education, Science
and Research

 **STADT**
der Zukunft

klimaaktiv


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.



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

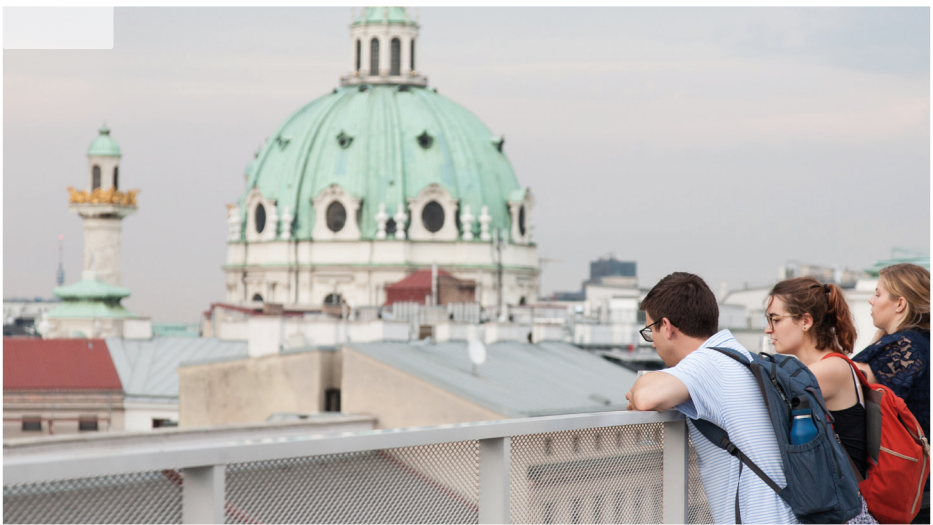


"Vienna is very unique – both in people and buildings. I came to GBS to find the solutions that I can adapt and take back to my home country, where sustainable architecture is still pretty new. Learning from a leading country – like Austria – has been a great opportunity, and the suggestions from lecturers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

Mungunzaya Munkhbayer, 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 Viennas' light house projects in climate-friendly building, and sports evenings!

Modules of GBS

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

1

Module 1 - Global Challenges & Role of Buildings

- Building(s) for the future
- Strategies for microclimatic and carbon resilience in a changing climate

2

Module 2 - Socially Inclusive & Accessible Urban Spaces

- Planning for social sustainability and its implementation
- Introduction to smart cities

3

Module 3 - Urban Strategies for Decarbonization

- Urban energy planning and energy
- Digital twins and positive energy districts: transforming urban landscapes
- LCA. Special focus on wooden buildings
- AI for sustainable urban development

4

Module 4 - Introduction to green building design and Passive House standards

- The architecture of green buildings
- Passive house, a constantly up-to-date building concept
- International development of passive house
- mineroom. A plus energy building from sketch to operation

5

Module 5 - Quality of life in and around buildings

- Climate sensitive design: from weather to comfort within the built environment
- Building physics: building envelope and indoor comfort parameters

- Outdoor comfort
- Daylight
- Visit of a lightlab in Krems

6 Module 6 – Nature Based Solutions

- Alternative building materials
- Green roofs and green walls
- Biodesign

7 Module 7 – Circular Economy in the Building Sector

- Circular city: Nature-based solutions and water as resource in the built environment
- Circularity as one of the secret tools tackling sustainability in the construction sector
- Creating sustainable living for everyone
- Tackling a Double Challenge – How to Build More While Using Less

8 Module 8 – Renewable Energy Technologies for Decarbonization

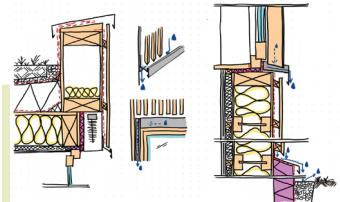
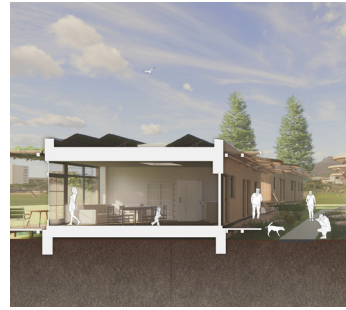
- Holistic architecture in timber
- Timber construction. Structural challenges
- Smart example of wooden building in Austria.
- Solar thermal and architecture
- Heat pumps in green buildings
- Photovoltaics and its applications
- Geothermics and its applications

9 Module 9 – Software Toolbox (Modelling & Simulation)

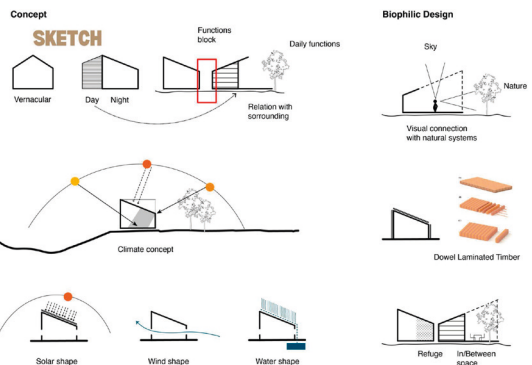
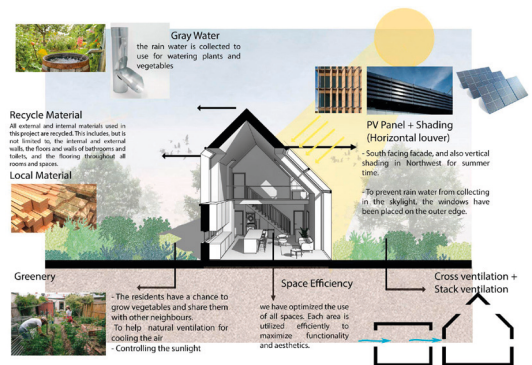
- Building information modelling
- PV calculation software
- Dynamic thermal simulations – e.g. Introduction to IDA ICE
- Workshop: Dynamic thermal simulations – deep dive

10 Module 10 – Project Work

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. In 2024 we worked on design solutions for sustainable residential buildings along the Danube River in Vienna.



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).
-

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.



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

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

If you have questions, contact us directly at gbs@oead.at





OeAD student housing

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Our partners:

