

ETH Zurich (German: *Eidgenössische Technische Hochschule Zürich*; English: Federal Institute of Technology Zurich) is a public research university in Zürich, Switzerland. Founded in 1854 with the stated mission to educate engineers and scientists, the university focuses primarily on science, technology, engineering, and mathematics.

Like its sister institution EPFL, ETH Zurich is part of the Swiss Federal Institutes of Technology Domain, a consortium of universities and research institutes under the Swiss Federal Department of Economic Affairs, Education and Research.^[5] As of 2023, ETH Zurich enrolled 25,380 students from over 120 countries, of which 4,425 were pursuing doctoral degrees.^[6]

Students, faculty, and researchers affiliated with ETH Zurich include 22 Nobel laureates, two Fields Medalists, three Pritzker Prize winners, and one Turing Award recipient, including Albert Einstein and John von Neumann.^[7] It is a founding member of the IDEA League and the International Alliance of Research Universities (IARU), and a member of the CESAER network.

History

ETH Zurich was founded on 7 February 1854 by the Swiss Confederation and began giving its first lectures on 16 October 1855 as a polytechnic institute (*eidgenössische polytechnische Schule*) at various sites throughout the city of Zürich.^[1] It was initially composed of six faculties: architecture, civil engineering, mechanical engineering, chemistry, forestry, and an integrated department for the fields of mathematics, natural sciences, literature, and social and political sciences.

It is locally still known as *Polytechnikum*, or simply as *Poly*, derived from the original name *eidgenössische polytechnische Schule*,^[8] which translates to "**federal polytechnic school**".

ETH Zurich is a *federal* institute (i.e., under direct administration by the Swiss government), whereas the University of Zurich is a *cantonal* institution. The decision for a new federal university was heavily disputed at the time; the liberals pressed for a "federal university", while the conservative forces wanted all universities to remain under cantonal control, worried that the liberals would gain more political power than they already had.^[9] In the beginning, both universities were co-located in the buildings of the University of Zurich.

From 1905 to 1908, under the presidency of Jérôme Franel, the course program of ETH Zurich was restructured to that of a real university and ETH Zurich was granted the right to award doctorates. In 1909 the first doctorates were awarded. In 1911, it was given its current name, *Eidgenössische Technische Hochschule*. In 1924, another reorganization structured the university in 12 departments. However, it now has 16 departments.

ETH Zurich, the EPFL, and four associated research institutes form the "*ETH Domain*" with the aim of collaborating on scientific projects.^[10]

Rankings

ETH Zurich is ranked among the top universities in the world. Typically, popular rankings place the institution as the best university in continental Europe and ETH Zurich is consistently ranked among the top 1–5 universities in Europe, and among the top 3–10 best universities of the world.


Historically, ETH Zurich has achieved its reputation particularly in the fields of chemistry, mathematics and physics. There are 32 Nobel laureates who are associated with ETH Zurich, the most recent of whom is Richard F. Heck, awarded the Nobel Prize in chemistry in 2010. Albert Einstein is perhaps its most famous alumnus.^[16]

Overall rankings

ETH Zurich is ranked 7th worldwide (first in Switzerland) in the QS World University Rankings 2025,^[12] 11th worldwide (first in Switzerland) in the Times Higher Education World University Rankings 2024,^[13] and 20th worldwide in the Academic Ranking of World Universities 2023.^[11] ETH Zurich ranked 2nd in Europe in the 2024 QS Europe rankings.^[17] In the 2023 Nature Index of academic institutions, ETH Zurich ranked 20th worldwide and first in Switzerland.^[18]

Subject/Area rankings

In the 2024 QS Word University Rankings by subject, ETH Zurich was ranked within the top 10 in the world in architecture, engineering and technology, and the natural sciences. It ranked first worldwide in the earth and marine sciences, geology, and geophysics.^[19] In the 2024 THE World University Rankings

ETH Zurich – Federal Institute of Technology Zurich	
Eidgenössische Technische Hochschule Zürich	
	
ETH Zurich at twilight	
Other names	(Swiss) Federal Institute of Technology in Zurich, German: <i>Polytechnikum</i> (colloquially)
Former name	Eidgenössische polytechnische Schule ^[1]
Type	Public
Established	1855
Budget	CHF 1.896 billion (2021)
President	Joël Mesot
Rector	Günther Dissertori
Academic staff	6,612 (including doctoral students, excluding 527 professors of all ranks, 34% female, 65% foreign nationals) (full-time equivalents 2021) ^[2]
Administrative staff	3,106 (40% female, 19% foreign nationals, full-time equivalents 2021) ^{[2][3]}
Students	24,534 (headcount 2021, 33.3% female, 37% foreign nationals) ^[2]
Undergraduates	10,642 ^[3]
Postgraduates	8,299 ^[3]
Doctoral students	4,460 ^[3]
Other students	1,133 ^[3]
Address	Rämistrasse 101 CH-8092 Zürich Switzerland,

by subject, it was the top Swiss university in all ranked subjects.^[20] In the 2023 ARWU Subject Ranking, the university was ranked within the top 10 worldwide in civil engineering, water resources, environmental engineering, automation, mathematics, earth sciences, and ecology.^[21]

Campus

ETH Zurich has two campuses, namely *Zentrum* and *Hönggerberg*. The *Zentrum* campus grew around the main building, which was constructed 1858–1864 outside and right above the eastern border of the town, but which is nowadays located right in the heart of the city. As the town and university grew, ETH Zurich spread into the surrounding vineyards and later quarters. Because this geographic situation substantially hindered the expansion of ETH Zurich, a new campus was built from 1964 to 1976 on the *Hönggerberg*, a northern hill in the outskirts of the city. The last major expansion project of this new campus was completed in 2003.

Zentrum campus

The *Zentrum* campus consists of various buildings and institutions throughout the city of Zurich.

The *Zentrum* campus houses the:^[22]

- Department of Mathematics
- Department of Computer Science
- Department of Humanities, Social and Political Sciences
- Department of Information Technology and Electrical Engineering
- Department of Mechanical and Process Engineering
- Department of Environmental Systems Science
- Department of Earth Sciences
- Department of Management, Technology, and Economics
- Department of Health Sciences and Technology

Main building

The main building of ETH Zurich was built from 1858 to 1864 under Gustav Zeuner; the architect, however, was Gottfried Semper, who was a professor of architecture at ETH Zurich at the time and one of the most important architectural writers and theorists of the age. Semper worked in a neoclassical style that was unique to him; and the namesake and architect of the Semperoper in Dresden. It emphasized bold and clear massings with a detailing, such as the rusticated ground level and giant order above, that derived in part from the work of Andrea Palladio and Donato Bramante. During the construction of the University of Zurich, the south wing of the building was allocated to the University until its own new main building was constructed (1912–1914). At about the same time, Semper's ETH Zurich building was enlarged and received its cupola.

The main building stands directly across the street from the University Hospital of Zurich and, right alongside the main building of the University of Zurich.

Hönggerberg campus

The *Hönggerberg* campus is a more classical university campus,^[23] consisting mainly of university buildings and student accommodation.

The *Hönggerberg* campus houses the:^[24]

- Department of Architecture
- Department of Civil, Environmental and Geomatic Engineering
- Department of Materials
- Department of Biology
- Department of Chemistry and Applied Biosciences
- Department of Physics

There is also an ASVZ sports centre which is accessible to all students and faculty, and includes a gym, beach volleyball court, football field, and martial-art rooms.^{[25][26]}

	<div>Zürich</div> <div>47°22′35″N</div> <div>8°32′53″E</div>
Campus	Urban
Language	German, English (Masters and upwards, sometimes Bachelor)
Colors	Black and White <div><div><div></div><div></div></div>^[4]</div>
Affiliations	CESAER, EUA, GlobalTech, IARU, IDEA League
Website	ethz.ch (https://ethz.ch/en.html)
<div>ETHzürich</div>	



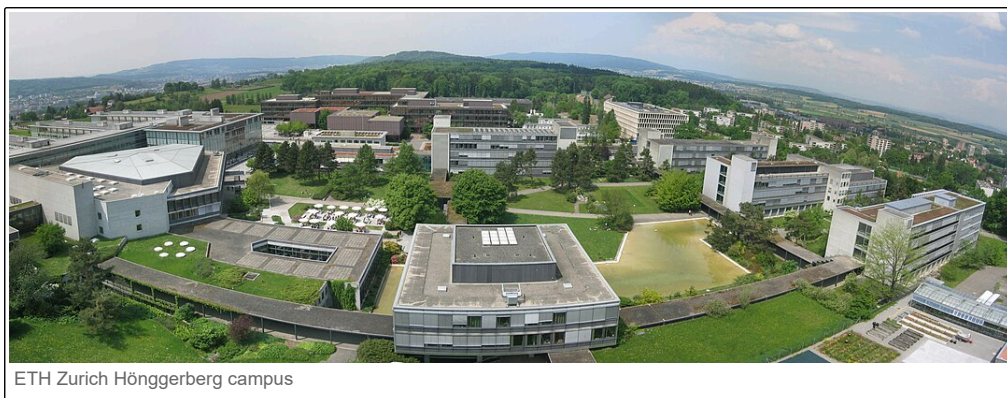
University rankings	
Global – Overall	
ARWU World ^[11]	20 (2023)
QS World ^[12]	7 (2025)
THE World ^[13]	11 (2024)
USNWR Global ^[14]	33 (tie) (2024)
Regional – Overall	
THE Europe ^[15]	4 (2023)
USNWR Europe ^[14]	5 (2023)



The ETH Zurich main building, which is the centre of the *Zentrum* campus



The northern wall of the main building, depicting famous scientists and academics



Aerial picture of the H nggerberg campus. The rest of the city of Zurich, where the main campus is, and the Alps can be seen in the background.

Science City

In 2005, the year of ETH Zurich's 150th anniversary, an extensive project called "Science City" for the H nggerberg Campus was started with the goal to transform the campus into an attractive district based on the principle of sustainability.

ETH Laboratory of Ion Beam Physics

The ETH Laboratory of Ion Beam Physics (LIB) is a physics laboratory located in Science City. It specializes in accelerator mass spectrometry (AMS) and the use of ion beam based techniques with applications in archeology, earth sciences, life sciences, material sciences and fundamental physics. An example of such application is the tracing of isotopes and the detection of rare radionuclides with radiocarbon dating and the use of techniques such as Rutherford backscattering spectrometry or elastic recoil detection.^[27] The LIB is developing the next generation of AMS machines. It is also a laboratory available for users interested in applying the techniques of ion beam analysis.^[28]

Commuting between the campuses

ETH Link

The ETH link is a free bus for students, affiliates and faculty linking the two campuses. During the school week, the bus runs 3 times an hour, and takes around 15 minutes. In 2020 a new, fully electric, eLink was introduced.^{[29][30]}

Bike share

Since 2018, an electric bike sharing system between the two campuses is also available, with yearly subscriptions subsidised by the university. There are rental stations on both campuses.^[31]

Student life

Tuition and financial assistance

Being a public university, the heavily subsidized (by Swiss federal tax) tuition fees are CHF 730 per semester, regardless of the student's nationality.^[32] Both merit and need based scholarships are also available. The Excellence Scholarship & Opportunity Programme (ESOP) is a merit scholarship program for master students with excellent grades in their undergraduate program.

Student associations

ETH Zurich has well over 100 student associations.^[33] Most notable is the VSETH (*Verband der Studierenden an der ETH*) which forms the umbrella organization of all field of study specific student associations and comprises a large variety of committees such as the Student Sustainability Committee and the ETH Model United Nations. The associations regularly organize events with varying size and popularity. Events of the neighboring University of Zurich are well-attended by ETH Zurich students and vice versa.

The largest career fair on campus is the *Polymesse* which is organized by students in the *Forum und Contact* committee of VSETH. Many student associations however organize career fairs specifically for the students in their departments with companies related to their field of study. The VSETH is also the official representation of the student body towards the school and has been working with ETH on various projects with the aim of improving the students' experience at ETH. The representation towards the various departments is handled by the respective student associations.

The *Polyball*, which is the biggest decorated ball in Europe, takes place annually in the main building of ETH and is organized by students and former students in the KOSTA foundation. It has been taking place since the 1880s.

ETH Juniors is another student organization. It forms a bridge between industry and ETH Zurich and offers many services for students and companies alike as a student-led consulting group.^[34]

Sports



Students and locals in ETH Zurich's front courtyard

The **Academic Sports Association of Zurich** (ASVZ) offers more than 120 sports.^[35] The biggest annual sports event is the *SOLA-Stafette* (SOLA relay race) which consists of 14 sections over a total distance of 140 kilometers. More than 760 teams participated in the 2009 edition.^[36] The 40th edition of the SOLA, held on 4 May 2013, had 900 enrolled teams, of which 893 started and 876 were classified.^[37] In 2014 ASVZ celebrated their 75th anniversary.^[38]

Innovation

Student Project House

In 2017, ETH Zurich board approved the creation of a "Student Project House" to encourage student projects and foster innovation. A test consisting of a "makerspace" and co-working space was established on the Hönggerberg campus,^{[39][40]} followed by a 6-story space near the ETH Zurich main building. Both locations function as a unified entity for the purpose of qualifications, staffing and decision making. While both makerspaces offer similar tools, the central one is significantly larger and also hosts a rentable auditorium, intended for pitching projects to faculty to gain funding, and a bar.

Both makerspaces include workspaces for wood- and metalworking, electronics fabrication, as well as an array of 3D-printers for students to use at a little over material cost. Both also feature a shop for students to buy items such as resistors in lower quantities than ordinarily, while passing down the savings of bulk purchases.^[41] The makerspaces are managed and staffed entirely by students, who are paid in shop credit. A new space is expected to open on the Hönggerberg campus in 2024.^[42]



A view over Niederdörfli. ETH Zurich's main building is visible in the distance.

Spin-offs

ETH Zurich promotes technology and knowledge transfer through an entrepreneurial ecosystem to foster spin-offs and start-ups.^[43] As of 2022, 527 ETH Zurich spin-off companies had been created.^[44]

Competition teams

ETH Zurich has three prominent competition teams that perform research in different popular fields and compete on the world stage. Most of these teams are based in the Swiss Innovation Park near Dübendorf.^[45]

ARIS

The Swiss Academic Spaceflight Initiative (ARIS)^[46] (German: *Akademische Raumfahrt Initiative Schweiz*) is an organisation at ETH Zurich that focuses on the development of space related technologies. The most prominent area of research is in the development of a sounding rocket that is flown yearly at the Spaceport America Cup. ARIS also dedicates its resources to the academic advancement of spaceflight and hosts projects ranging from the development of Hybrid rocket Engines to Payload research.

Achievements

- ARIS won 2nd place at the Spaceport America Cup 2019 in the 10'000 ft COTS Engine challenge.^[47]

AMZ

The *Academic Motorsports Association*^[48] (German: *Akademischer Motorsportverein Zürich*) is the ETH Zurich's equivalent of a Formula One team, that develops electric and driverless sports vehicles that compete at Formula Student.

Achievements

AMZ has proven to be one of the most successful teams in the Formula Student history, with in total 13 overall victories (as by September 2021) at Formula Student Events. Highlight was the double victory at the Formula Student Germany (FSG) in the Electric as well as the Driverless Category (autonomous driving car). Furthermore, AMZ was leader of the Formula Student world ranking in 2013 – 2015, 2017 & 2018. The team also dominated the autonomous driving category since its introduction in 2017 for three years, winning all the events the team attended with the autonomous car until FSG 2021. In 2015, and again since 2016, their car *grimsel* holds the official Guinness world record for fastest acceleration of an electric car, achieving 0–100 km/h in 1.513 seconds. In 2023, AMZ broke the previous world record again and has set a new record of 0-100km/h in 0.956 seconds.^[1] (<https://ethz.ch/en/news-and-events/eth-news/news/2023/09/from-zero-to-one-hundred-i-n-0-956-seconds.html>)

Swissloop

Swissloop is the ETH Zurich's newest competition team that is working on the development of a Hyperloop system.

Traditions

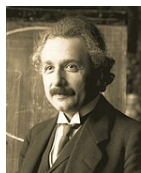
The annual *Polyball* is the most prestigious public event at ETH Zurich, with a long tradition since the 1880s. At the end of November, the *Polyball* welcomes around 10,000 dancers, music-lovers and partygoers in the extensively decorated main building of ETH Zurich. This is the biggest decorated ball in Europe.

The amicable rivalry between ETH Zurich and its neighbor, the University of Zurich, has been cultivated since 1951 (Uni-Poly). There has been an annual rowing match between teams from the two institutions on the river Limmat.

There are many regular symposia and conferences at ETH Zurich, most notably the annual *Wolfgang Pauli Lectures*, in honor of former ETH Zurich Professor Wolfgang Pauli. Distinct lecturers, among them 24 Nobel laureates, have held lectures of the various fields of natural sciences at this conference since 1962.

Notable alumni and faculty

ETH Zurich has produced and attracted many famous scientists in its short history, including Albert Einstein and John von Neumann. More than twenty Nobel laureates have either studied at ETH Zurich or were awarded the Nobel Prize for their work achieved at ETH Zurich. Other alumni include scientists who were distinguished with the highest accolades such as the Fields Medal, Pritzker Prize and Turing Award, among other distinctions in their respective fields. Academic achievements aside, ETH Zurich has been alma mater to many Olympic medalists and world champions.



Albert Einstein,
1921 Nobel Prize
in Physics



John von Neumann,
polymath



Alfred Werner,
1913 Nobel Prize
in Chemistry



Felix Bloch, 1952
Nobel Prize in
Physics



Wernher von Braun, pioneer of
rocket and space
technology



Philippe Kahn,
inventor and
entrepreneur

Related organizations

Collegium Helveticum

The Collegium Helveticum is an Institute for Advanced Study.^[49] It is jointly supported and operated by the ETH Zurich, the University of Zurich and the Zurich University of the Arts. It is dedicated to transdisciplinary research and acts as a think tank as well. Fellows are elected for five years to work together on a particular subject. For the period 2016–2020, the research focus is on *digital societies*.^[50]

ETH Zurich Foundation

The ETH Zurich Foundation is a legal entity on its own (a Swiss non-profit foundation) and as such not part of the ETH Zurich. Its purpose is to raise funds to support chosen institutes, projects, faculty and students at the ETH Zurich. It receives charitable donations from companies, foundations and private individuals. It can be compared with university endowments in the US. However, the ETH Zurich is a public university so that the funds of this foundation are much smaller than at comparable private universities.^[51] Examples of funded teaching and research are:^[52]

- New institutes such as the *Wyss Translational Center Zurich*^[53]
- Additional professorships
- Rössler Prize^[54]
- Pioneer fellowships
- Excellence scholarships^[55]

Military Academy

The Military Academy is an institution for the education, training and development of career officers of the Swiss Armed Forces. The scientific part of this organization is attached to the ETH Zurich, while other parts such as training and an assessment center are under the direct management of the defense sector of the Swiss Federal Government.^[56]

Swiss National Supercomputing Center

The Swiss National Supercomputing Center is an autonomous organizational unit of the ETH Zurich. It is a national facility based in Lugano-Cornaredo,^[57] offering high-performance computing services for Swiss-based scientists.^[58]

ChainSecurity

ChainSecurity is a spin-off founded by ETH professor Martin Vechev and the former ETH doctoral students Hubert Ritzdorf and Petar Tsankov. The company's overall goal is to make blockchain technologies more secure. To that end, it develops and operates automated scanning programs for auditing smart contracts. Providers of smart contracts can ask ChainSecurity to audit them and thus receive certification for the security of their contracts.^[59]

Gallery



HPT Tree in Winter



Höggerberg



ETH-Universitätsspital tram stop



Main building

See also



- [EPFL](#)
- [Engineering](#)
- [Laboratory for Energy Conversion](#)
- [List of universities in Switzerland](#)
- [List of largest universities by enrollment in Switzerland](#)
- [List of forestry universities and colleges](#)
- [Science and technology in Switzerland](#)
- [2000-watt society](#)
- [Disney Research](#)
- [e-rara.ch](#)
- [Swiss Electromagnetics Research and Engineering Centre](#)
- [ETH Zurich University Archives](#)
- [Category:ETH Zurich alumni](#)
- [Category:Academic staff of ETH Zurich](#)
- [Swiss Federal Institute for Vocational Education and Training](#)

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Further reading

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External links

-  Media related to ETH Zurich at Wikimedia Commons
- Official website (<https://www.ethz.ch/en.html>)
- ETH Zurich's channel (<https://www.youtube.com/user/ethzurich>) on YouTube

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