

# **Research Barometer**

## 3.35 percent Research rate sets record



In 2024, Austria invested 16.1 billion euros in research and development. At 3.35 percent of GDP, this is a new record. The state financed around a third of R&D expenditure - including over 1.1 billion euros from the research premium. Austria has consistently exceeded the EU target of 3 percent since 2014.

Source: Research intensity in 2024 at 3.35% In Austria, a total of 16.1 billion euros, were spent on research

## Top 3 in Europe

### Test center for green hydrogen

The Graz University of Technology has opened Austria's first university electrolysis test center on a megawatt scale. The 10 million euro state-funded facility has an output of 4 megawatts, produces up to 50 kilograms of green hydrogen per hour and is one of the three most powerful of its kind in Europe.

Source: <u>Hydrogen university TU Graz: Austria's first university-based, megawatt-scale H2</u> electrolysis test centre opens

## Al Factory Austria promotes Al innovation

Supported by the EU program "European High Performance Computing Joint Undertaking", AI Factory Austria (AI:AT) strengthens Austria's AI infrastructure. A powerful supercomputer and an AI hub provide researchers, start-ups and companies with the necessary resources for new AI technologies.

#### TU vienna makes "wonder material" ready for industry

A research team at TU Wien and industrial partner Plansee SE have developed a non-toxic method for producing MXenes highly conductive 2D materials for batteries, sensors and aerospace. Instead of the hazardous hydrofluoric acid previously used, the process uses an electrochemical approach that makes industrial applications safer and more sustainable.

Source: New, non-toxic synthesis method for "miracle material" MXene

## Biotechnology for rare earths

Source: Al Factory Austria (AI:AT) Boosts the National Al Ecosystem



In the "Rare Earth Elements aligned for green technologies (REEaLIGN)" project, the University of Natural Resources and Life Sciences Vienna is developing a biological process for recovering rare earths from electronic waste. The aim is a sustainable recycling process for high-tech metals such as neodymium which is used in magnets for electric cars for example.

Source: REEaLIGN - Lignin based adsorber gels and bioaccumulation for metal recovery from E-waste

#### 25 years: Salzburg Research drives deep tech applications forward



The Salzburg Research organization develops practical technologies - from 5G testbeds to data-based mobility. Its research infrastructure supports companies in quickly scaling up deep-tech innovations and making them ready for the market. This year, the company is celebrating its 25th anniversary. Almost 600 research projects have been successfully implemented.

Source: https://www.salzburgresearch.at/en/

The ABA Research Barometer of the Austrian Business Agency (ABA) provides an overview of current issues and projects in Austria as a research location.

For further information: investinaustria.at/en/why-austria/research-location/