



Cross-Industry-Innovation: Chipdesign, IoT & Industry 4.0



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in
bavaria

Diverse business opportunities

- › **Bavaria is one of Europe's leading locations for the semiconductor and microelectronics industry.** The region is renowned for highly automated factories, deep knowledge in process engineering, and Europe's top talent pool in engineering.
- › Innovation thrives here because entrepreneurs and scientists closely collaborate to create the digital future.
- › **Bavaria is a world-leading manufacturing industry supplier, and a leader in the automotive, mechanical and electrical engineering industries.**
Moreover, it is also home to numerous so-called hidden champions, global market leaders in their respective niche industries:
 - › Ten of the 40 companies listed in the DAX share index are based in Bavaria (e.g. Siemens, Allianz, Munich Re, BMW, Infineon, MTU and Adidas).
 - › 12 out of 50 companies in the secondary MDAX share index are Bavarian.
 - › 103 of Germany's 464 acknowledged world market leaders are based in Bavaria with joint revenues of € 391 billion and a combined workforce of 1.3 million.
 - › Manufacturing industry accounts for 25% of GDP
- › **Bavaria is home to companies from a wide range of different fields of electrical engineering and electronics, including many international market leaders.** Key application sectors are mobility (e.g. automotive, aeronautics, railway technologies), automation (factory of the future), medical technologies and energy. Cross-industry-innovation is a reality here!

Access to talent

- › **56 universities and universities of applied sciences in Bavaria**
- › 43% of the 407,000 students at Bavaria's universities are enrolled in STEM degree courses, the highest ratio in Germany.
- › **Applied research:** A total of around 70 science, research and innovation institutions are based here. [Fraunhofer](#) is Europe's largest application-oriented research organization. Three Bavaria-based Fraunhofer institutes ([Fraunhofer EMFT](#), [Fraunhofer IISB](#), [Fraunhofer IIS](#)) are of key relevance to chip design.
 - › **Bavaria is the region in Europe with most patent applications** and accounts for 29.5% of all German applications at the European Patent Office (2021).

Effective networks

- › [Cluster Power Electronics](#): Industrial and Research Network for Power Electronics
- › [Cluster Mechatronik & Automation e.V.](#): Connects knowledge originating from the disciplines mechanics, electronics and computer sciences.
- › [Cluster Sensor Technology](#): Point of contact for companies and other industrial users in the field of sensors
- › [Bavarian Chips Alliance](#) Designed to connect all relevant players in a [Bavaria-wide semiconductor ecosystem](#) and leverage networking opportunities at national, European and international level. The central goal of this semiconductor network is to promote exchange and cooperation among partners in the semiconductor value chain, including science and end-users.
- › **Strategic partnership between the Bavarian Chips Alliance and the Bavarian Cluster Initiative for the qualification of skilled workers in the Bavarian semiconductor industry** (Roadmap Qualification in the Semiconductor Industry 2025).

Glocal perspectives

- › **25 of the world's 50 most innovative companies have a major operational base in Bavaria.**
- › Annual events in Bavaria with global appeal and attraction for leading players in chip design and related industries:
 - › [Electronica Munich](#) (November)
 - › [Semicon Munich](#) (November)
 - › [Global Semiconductor Alliance, European Executive Forum](#), Munich (May/June)
 - › [Embedded World](#), Nuremberg (June)
 - › [Laser World of Photonics](#), Munich (June)
- › Various institutions, such as [Bayern International](#), assist innovative companies to go global, for example by participating in international trade fairs.

As the business promotion agency of the State of Bavaria we assist you in setting up a new business or expanding in Bavaria. Our customized one-stop service for investors is confidential and free of charge.

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