



## Why study mechanical engineering in France?

Mechanical engineering has long been part of France's industrial culture and is one of **the most innovative in the world**. It is the **top manufacturing employer in the country**, with 628,000 employees<sup>1</sup>, i.e. 20% of manufacturing jobs nationwide. Thanks to its numerous worldwide operating companies such as Renault, PSA Peugeot Citroën, Thales, Alstom, Safran, Airbus, Lohr Industrie, Poclairn, etc., **France ranks 6<sup>th</sup> in the world in terms of turnover**, 41% of which is generated by export sales<sup>2</sup>.

All of the major manufacturing sectors (automobile, aeronautics, IT, food processing, luxury goods, etc.) involve mechanical engineering, which is needed in the design and manufacturing processes of high-technology products and lies at the heart of competitiveness and industrial innovation. Today, mechanical engineering is a booming industry faced with new challenges, i.e. respecting the environment (ecodesign, energy efficiency) and increasing farming productivity (by creating smarter and more efficient agricultural machinery).

## Careers

Mechanics is everywhere, which is why mechanical engineers can work in a very wide range of contexts (studies, calculations, trials, methods, manufacturing, maintenance, marketing, etc.) and industrial sectors (transport, equipment, automobile, textile machinery, robotics, shipbuilding, construction, aeronautics, IT, food processing, etc.).

They must therefore possess extensive knowledge not only in science and technology at large, but also in business and project management.

## n+i engineering institutes

Arts et Métiers ParisTech, École des Ponts ParisTech, ENSEEIHT, ENSIACET, ENSIAME, ENSISA, ENSMM, ESTACA, ESTIA, ESTP, INSA Centre Val de Loire, HEI, INSA Strasbourg, INSA Toulouse, Mines Albi-Carmaux, Polytech Orléans, Polytech Paris-Sud, SIGMA Clermont, etc.

## Keywords

*Automotive – electrical engineering – energetics – industrial – mechanical – mechatronics – etc.*

## Companies

- [www.groupe-psa.com](http://www.groupe-psa.com)
- [www.thalesgroup.com](http://www.thalesgroup.com)
- [www.alstom.com](http://www.alstom.com)
- [www.safran-group.com](http://www.safran-group.com)
- [www.lohr.fr](http://www.lohr.fr)
- [www.poclain-vehicules.com](http://www.poclain-vehicules.com)
- [www.renault.fr](http://www.renault.fr)
- [www.airbus.com](http://www.airbus.com)



## Photos and videos

- [www.thalesgroup.com/fr/a-propos-de-thales](http://www.thalesgroup.com/fr/a-propos-de-thales)
- <http://www.enedis.fr/webtv>

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<sup>1</sup> Ministry of industry, 2013, <sup>2</sup> Ibid