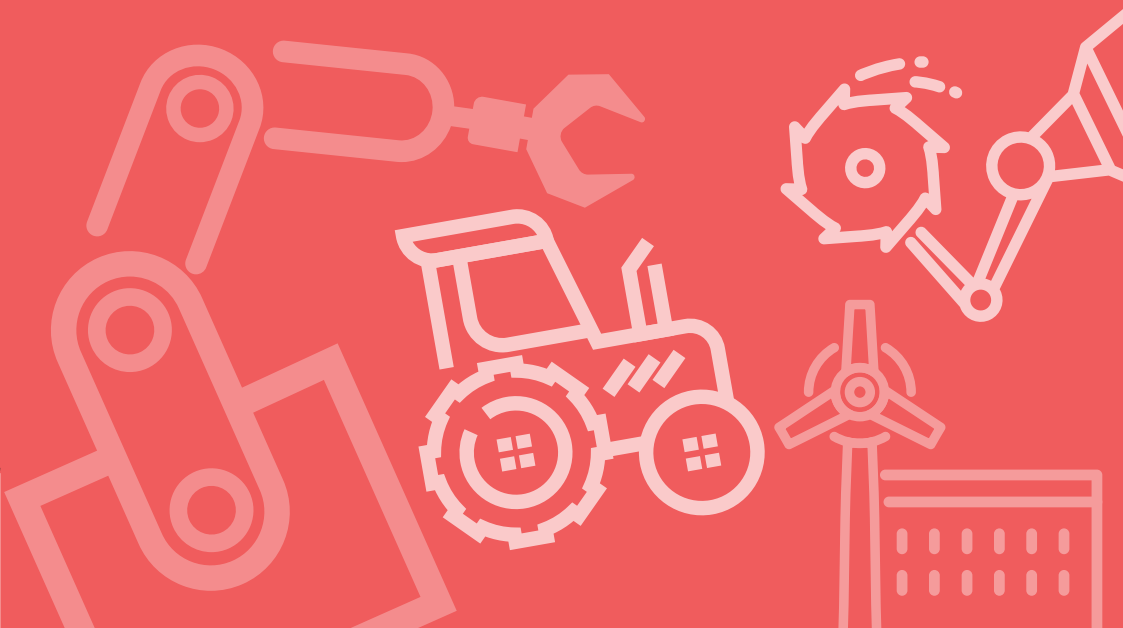
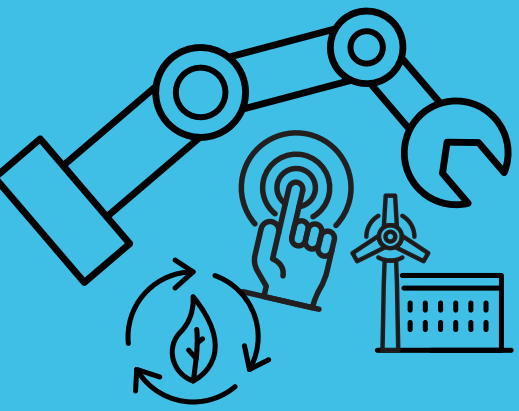
Things are about to get a whole lot more digital!

Digitalisation of industry – Industry 4.0 – is opening many exciting opportunities in Europe. From factories to farms and everything in between, more efficient and sustainable processes through digital innovation are paving the way for real societal benefits.





Factory machinery will become more efficient and sustainable, using robotics, sensors, complex modelling, very accurate test simulations and data analytics among other technologies. Sensors can detect issues with machinery before they break and will monitor every step, helping to create new products to the highest quality. This is great for us and the environment too.

Forget one size fits all – 3D printers can print to any spec you can imagine. Custom hips in super-strong and light materials are only the tip of the iceberg!

High tech sensors will help farmers to monitor crop and animal health, and tackle diseases before they take hold. Autonomous machines for targeted watering, pest and weed control will make farming more environmentally friendly and efficient. That means more food available for our ever-growing population.

This flashy machinery can't run itself! Nor can it think up interesting new products and services to help solve real-world problems! There is a **MASSIVE** need for workers with a range of specialised skills, with over a million unfilled positions in Europe alone. That means lots of jobs for those with the right skills. Filling these positions will help strengthen Europe's industry and economy too.

Like a challenge? Pursuing a career in Industry 4.0 could lead you to stimulating work where you are continually learning. 72% of employees in these fields say the automated processes leave more time to get creative, so you can show your artistic flair too!

Most importantly, these careers give you a chance to make a real impact on society. With 82% of young people wanting a career where they can help other people, this is a great opportunity!

STILL INTERESTED?

Want to join the Industry 4.0 revolution?

Do you love numbers, computers and everything in between? Would you like to be a creative problem solver in-tune with societal challenges, and coming up with innovative solutions? Your future job might not even exist yet, so the world's your oyster! Here's just some of the emerging fields that could get you into Industry 4.0...

Data analysis

Product innovation and materials

AI and machine learning

Augmented & virtual reality

Software and applications development

Big data

Digital ethics

Collaborative robotics

Digital modelling and simulation

Follow your passion and see where it could take you with Industry 4.0! For more information, visit industry4e.eu/careers

YOUR INDUSTRY 4.0 QUESTIONS ANSWERED

So more factory machines will be connected to the internet. What's the big deal?

Sensors are now able to monitor machinery such as wind farms or factory machines and feed back data in real-time. The data gathered can be used by human operators to make accurate decisions on how to optimise the machines on an ongoing basis or predict when they will require maintenance. The data can also be used to improve the selection, design and manufacturing of future products. The good news is that this cost-effective, rapid design and defect-free production lends itself to highly customised products becoming the norm.

Are the robots going to take over the world?

You have nothing to worry about! These robotic parts will be totally controlled by humans, with many safeguards and security measures in place. A study from the World Economic Forum estimates that there will be a net increase of 58 million jobs worldwide as this new technology is ushered in.

What kind of industries will be affected by these changes?

These technologies are going to be involved in pretty much every industry sector, including healthcare, agri-food, electronics, automotives, aerospace, chemical industry, transport, logistics, research, and much more. There are lots of paths into Industry4.0 and plenty of opportunities for current workers to up- or re-skill. Collaborations between workforces with diverse backgrounds will also strengthen the industry.

DID YOU KNOW?

3D printed belt buckles for passenger jets are over 2x lighter than conventional designs without compromising strength. This saves 3.3 million litres of fuel per aircraft over its lifetime. That's equivalent to the amount of CO_2 released by driving over 68 million km in petrol cars - almost 1700 trips around our planet!

If you would like to know more about these amazing opportunities, please visit industry4e.eu/careers

Industry4.E
INITIATIVE FOR EXCELLENCE IN DIGITAL INDUSTRY

ECSEL Joint Undertaking