

# NMIS

National Manufacturing  
Institute Scotland

## NMIS Manufacturing Skills academy

Skills & training support, how  
NMIS MSA can help

North East of Scotland Manufacturing Forum  
28<sup>th</sup> June 2022

[nmis.scot](https://nmis.scot)



# What is the National Manufacturing Institute Scotland (NMIS)

The National Manufacturing Institute for Scotland is an industry-led international centre of manufacturing expertise where industry, academia and the public-sector support bodies work together to transform skills, productivity and innovation making Scotland and the UK a global leader in advanced manufacturing.



# What will NMIS do?

- ▶ **Help existing and future workers** develop and enhance the skills they and employers need to compete globally in manufacturing
- ▶ **Accelerate innovation** by enabling manufacturing companies to trial and test new processes, applications and technologies
- ▶ Demonstrate **new manufacturing technologies and processes** at an earlier stage
- ▶ Encourage **supply chain collaboration** at the research stage of product development
- ▶ Provide access to modern equipment and expertise to support prototyping, testing, and scale-up to industrial production, thereby helping **de-risk investment, especially for SMEs**
- ▶ Provide a **focal point for applied manufacturing research** expertise, thereby strengthening Scotland's reputation for R&D and attracting inward investment
- ▶ Act as a **beacon to attract investment** into the Advanced Manufacturing Innovation District Scotland
- ▶ The Digital Factory will house an array of **state of the art machinery** and other manufacturing equipment including digital and robotic **technology**



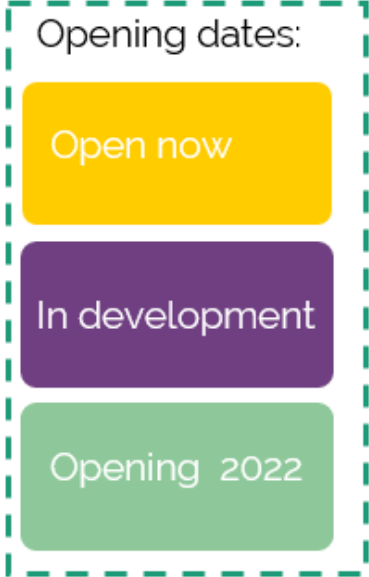
# Anchoring the Advanced Manufacturing Innovation District Scotland

- ▶ Scotland's home for manufacturing innovation
- ▶ Established experts, leading researchers and a skilled workforce
- ▶ Connected by air, sea and land
- ▶ New 52-hectare campus next to Glasgow Airport
- ▶ Home to the National Manufacturing Institute Scotland and Medicines Manufacturing Innovation Centre
- ▶ Enabling infrastructure complete 2022



# The NMIS Group

A combination of core NMIS capability, specialist technology centres and an active network of partners in the manufacturing community.



# The Manufacturing Skills Academy will:

- ▶ **Support employers** to embrace Industry 4.0 and develop new approaches which **build on existing provision** offered across Scottish institutions.
- ▶ Look ahead to **identify skills gaps** and provide **access to equipment and training** to help companies prepare for the future.
- ▶ Encourage youth to pursue a career in manufacturing.
- ▶ **Showcasing** a clean, high-tech industry which is accessible to all people from all backgrounds.



# Progress to date

- ▶ Foundation apprenticeship in Digital Manufacturing
- ▶ Industrial Doctorate Programme in Advanced Manufacturing
- ▶ Continuous professional development opportunities
  - ▶ **Advancing Manufacturing Challenge Fund**
  - ▶ **National Transition Training Funding 1 & 2**
- ▶ Free support for individuals including:
  - ▶ Digital skills for trainers
  - ▶ NMIS Insights Online webinars
  - ▶ Engineering Fundamentals module



# Skills related industry services

- ▶ 1 to 1 skills + consultation
- ▶ Training provision through public or private courses (online, virtually and/or face to face; public or in house)
- ▶ Consultancy workshops on a range of areas including: Digital manufacturing, Equality Diversity & Inclusion (ED&I), Leadership & Strategy, Sustainability, Net Zero Carbon, and Advanced Manufacturing from digital remanufacturing to operational excellence and Supply Chain Management.
- ▶ Skills partnering, offering individualised learning pathways and access to the MSA Learning Management System (LMS).
- ▶ Graduate funded placements (limited spaces / funding criteria applies)
- ▶ Engineering Doctorate Programme
- ▶ Sign posting





# Current funded programmes

## ▶ National Transition Training Funding (NTTF)

- ▶ *Objective:* Upskilling, reskilling and futureproofing
- ▶ *Target audience:* Individuals 25+ years
- ▶ *Delivery format:* Virtual short courses
- ▶ Dates: Jan 2022 – August 2022
  - ▶ 300 delegates attending courses

## ▶ Advancing Manufacturing Challenge Fund (AMCF)

- ▶ *Objective:* building company wide digital manufacturing competencies
- ▶ *Target audience:* manufacturing SMEs
- ▶ *Delivery format:* Online
- ▶ April 2020-June 2023
  - ▶ 300 delegate attending events/courses
  - ▶ 70 supported companies



# NTTF programme benefits

- Build skills and knowledge
- Enhance your CV and employability
- Demonstrate ambition and capability
- Access free accredited training courses (subject to eligibility criteria)

Python for data analysis


10 - 11 May 2021  
Online learning  
Cost  
£Free



Booking information

Meta-skills 101

13 - 14 May 2021  
Online learning  
Cost  
£Free



Booking information

Introduction to SOLIDWORKS


11 June 2021  
Online learning  
Cost  
£Free



Booking information

Exploring the connected 'Smart' factory with Bitzlist

19 May 2021  
Online learning  
Cost  
£Free



Booking information

SOLIDWORKS essentials

17 - 20 May 2021  
Online learning  
Cost  
£Free



Booking information

Programming fundamentals with Python


17 - 20 May 2021  
Online learning  
Cost  
£Free



Booking information

Digital, data and data analytics

19 May 2021  
Online learning  
Cost  
£Free



Booking information

Managing organisational sub-cultures for successful collaboration

Cohort 1 - 17, 24 May, 2, 7 June;  
Cohort 2 - 8, 6, 23, 30 June  
Online learning  
Cost  
£Free

Booking information

# AMCF programme benefits

- ▶ Manage and exploit digital disruption
- ▶ Advance and upskill the workforce
- ▶ Become more efficient and productive
- ▶ Make better informed technology investments
- ▶ This support is available FOC to manufacturing SMEs

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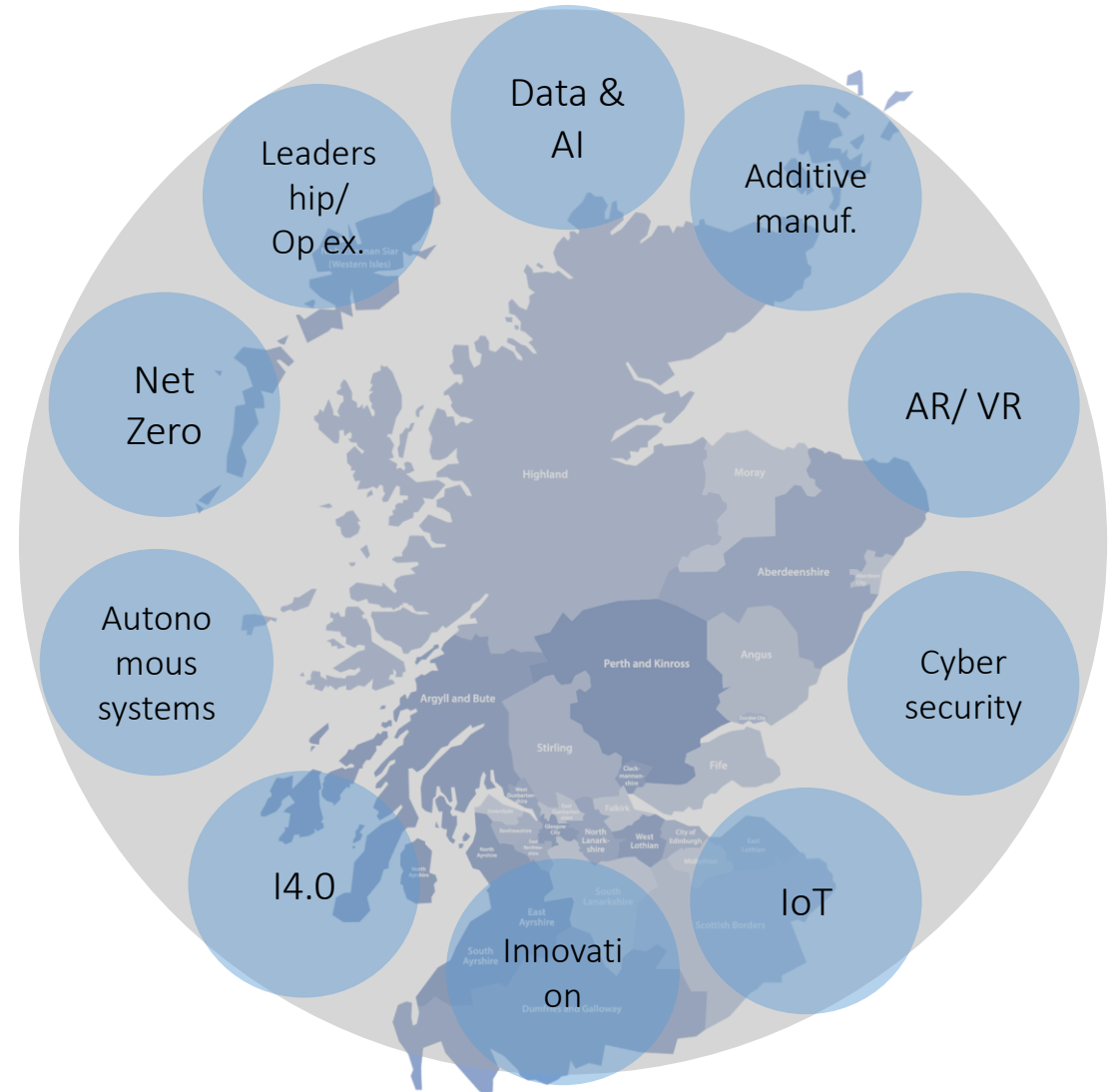
**EUROPE & SCOTLAND**  
European Regional Development Fund  
Investing in a Smart, Sustainable and Inclusive Future

This AMCF project is part-funded by  
the 2014–2020 European Structural  
and Investment Fund.



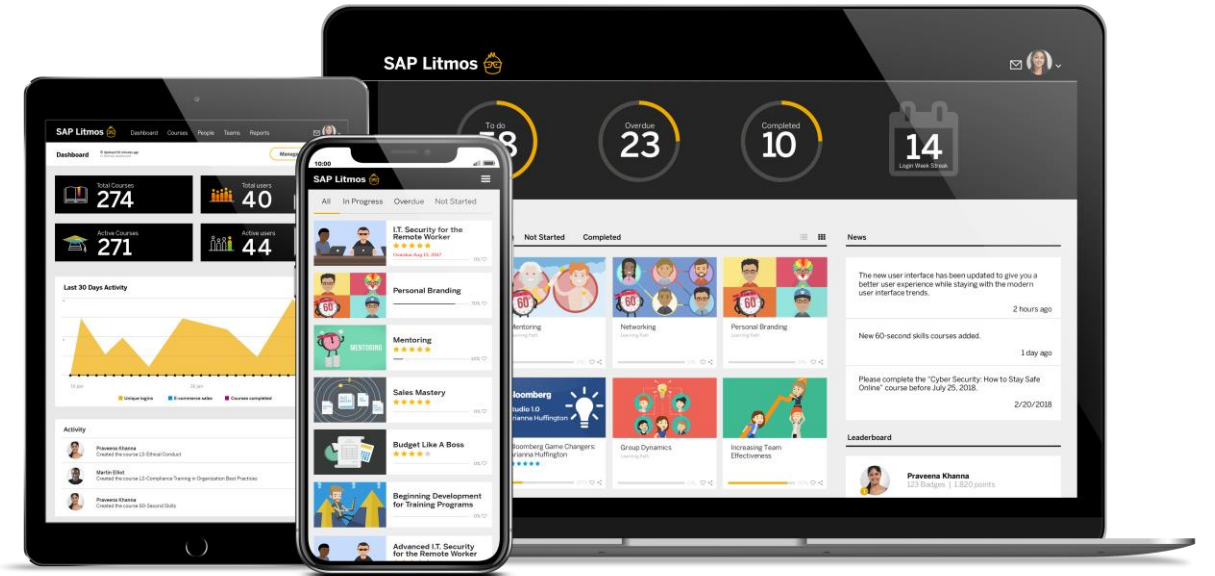
# Available programmes

- ▶ AMCF
  - ▶ Digital Manufacturing
  - ▶ Internet of Things
  - ▶ 3D printing series
  - ▶ Computer vision
  - ▶ Statistics & excel
  - ▶ Remanufacturing series
  - ▶ Sustainability / Net-zero



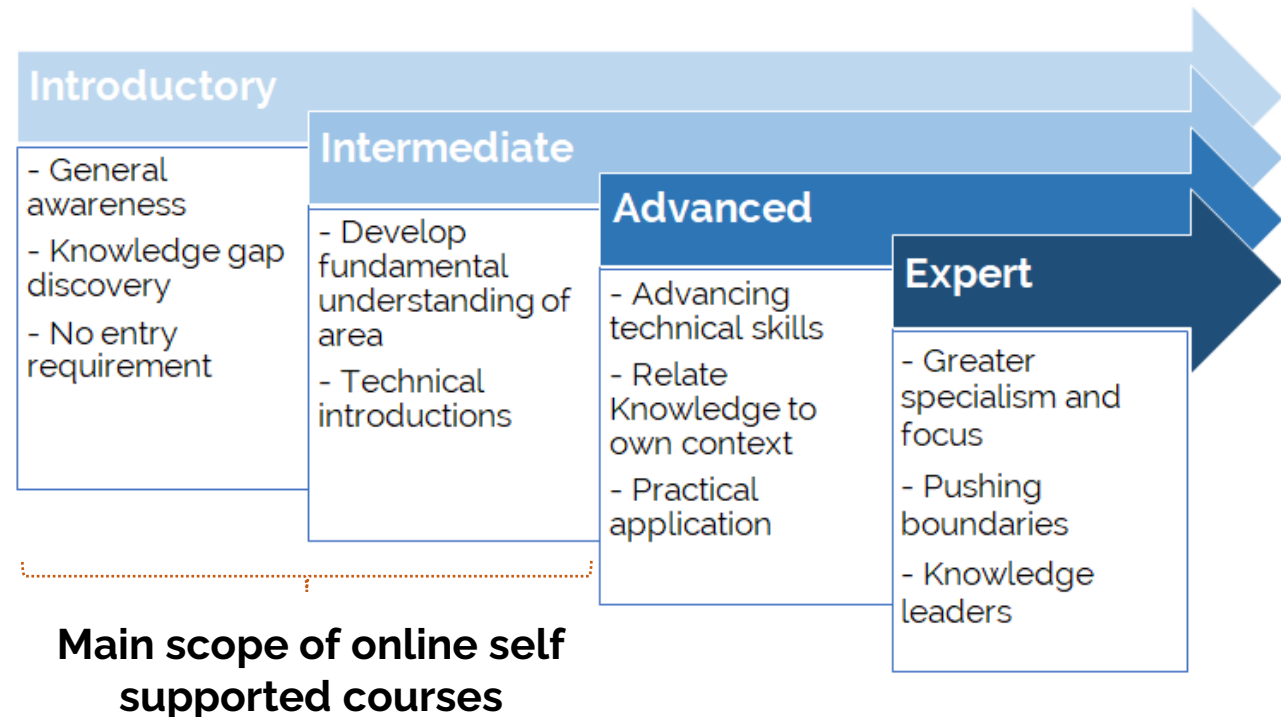
# Our learning platform

- ▶ Universal accessibility
- ▶ Robust analytics & reporting
- ▶ Simple integration & quick deployment
- ▶ Enhanced engagement & adoption
- ▶ Rapid automation & embedded AI
- ▶ Secure & quick scalability
- ▶ Easy course creation



# Digital training characteristics

- ▶ 24/7 access
- ▶ Materials designed for online delivery format purposes, i.e. limited tutor interaction vs. engaging content design
- ▶ Available FOC to Manufacturing SMEs



# NMIS MSA team

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