



THE CAREERS &
ENTERPRISE
COMPANY

Greater Lincolnshire Manufacturing Week Toolkit

Greater Lincolnshire Careers Hub

Introduction

Did you know...

GREATER LINCOLNSHIRE'S INNOVATIVE MANUFACTURING AND ENGINEERING SECTOR EMPLOYS OVER 48,000 PEOPLE

Across the region, there are over 2350 businesses operating in the exciting manufacturing and engineering industry, including power engineering, chemical, steel manufacturing and motorsport engineering. With many of these exporting around the globe; Greater Lincolnshire's creations are being used across the world.

Within this innovative industry, businesses are always looking for passionate and creative people to add to the region's manufacturing and engineering heritage.

Greater Lincolnshire's Manufacturing Week will take place Monday 4th – Friday 8th July, 2022. An essential part of this initiative is to raise awareness of the sector and opportunities within it to young people, parents, carers, teachers and Careers professionals.

Greater Lincolnshire evidences a strong manufacturing and engineering heritage and is very proud of this outstanding position as a nationally important centre for manufacturing.

Greater Lincolnshire is home to world-class companies including Siemens. The sector delivers a direct economic value to the Greater Lincolnshire economy of £2.1 billion per year and employs approximately 41,000 people with growth taking place across several key areas, including engineering, chemicals, metals and polymers.

Confidence in the area's manufacturing industry has been boosted by gas turbine giant Siemens, who have invested millions into a new development at Teal Park, near Lincoln, after finding it the best option UK wide for expansion. The metals and engineering sector in North Lincolnshire boasts more than 90 businesses and almost 6,000 employees. Greater Grimsby is at the centre of a major concentration of process industries, which in the wider Humber region employs around 15,000 people in 20-120 companies. The process industries are incredibly diverse and include petrochemicals; commodity and speciality chemicals; composite materials; pigments and paints; and pharmaceuticals. In the last ten years, the

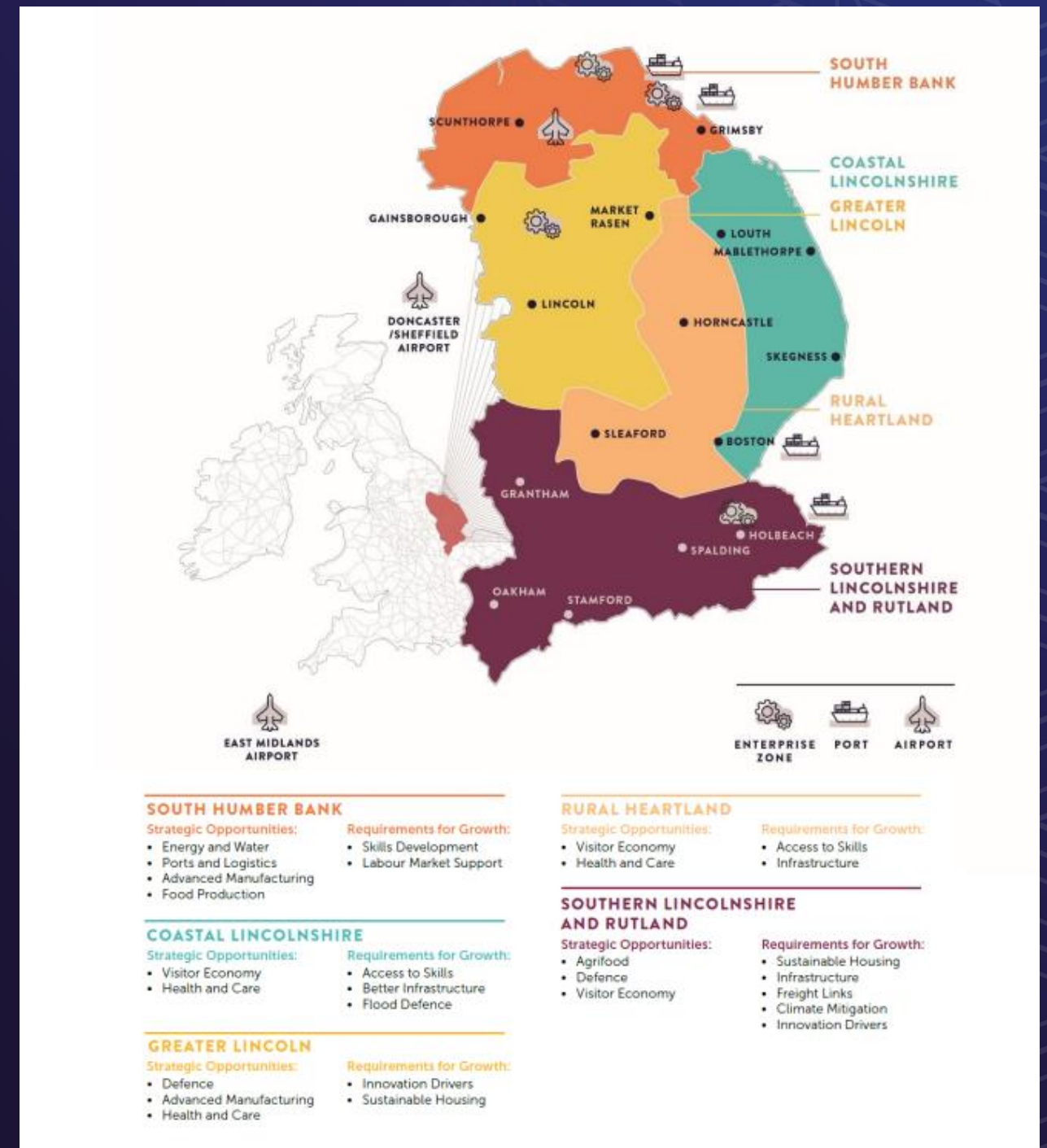
Humber Chemical Focus has grown into one of the UK's leading regional chemical initiatives, with more than 100 members. The HCF works with companies and organisations within the region to create and support industry. While the number of the people employed in this sector has declined over the last 10 years nationally, Greater Lincolnshire has fared better, losing approximately a quarter of its employment compared to a third across Great Britain. The value of the sector has continued to rise over this time, and is set to do so in the future. We continue to excel in the manufacturing sector, offering a fresh skills pool to local employers through the first purpose-built School of Engineering for 20 years at the University of Lincoln.

Using this toolkit

This toolkit is designed to support teachers and Careers Leaders to understand more about the Manufacturing Sector, opportunities for Young People and link skills learnt in the classroom, directly to the workplace.

What you'll find in this toolkit:

1. **Headline stats, facts and figures.** You can share these nuggets of information in form time, as lesson starters, on display boards and on digital screens around your school/college.
2. **Lesson Plans.** Off-the-shelf lesson plans designed by subject area, aimed at linking careers in Manufacturing, to the Curriculum.
3. **Get Inspired.** Understand how you can implement the Manufacturing world into work experience, insight days and hands-on activity for students.
4. **The Future.** Learn about apprenticeship vacancies, FE and HE routes and careers relevant to the Manufacturing Industry in Greater Lincolnshire.



Stats and headlines

Share these nuggets of information in form time, as lesson starters, on display boards and on digital screens around your school/college



Myth Busting: What is Manufacturing?

- ▶ Manufacturing is the creation and production of goods, food/drink, chemicals, medicines, and many other products.
- ▶ Almost everything we own, wear, eat, drink, buy and sell is manufactured in some way.
- ▶ Manufacturing is not just about doing manual labour in a workshop, though that is an essential part of the industry.
- ▶ There is a high demand for skilled workers in fields such as chemical engineering, pharmaceuticals and food manufacturing.

Manufacturing in Greater Lincolnshire

- The sector generates over £2.1 billion per year for Greater Lincolnshire and employs approximately 41,000 people
- The metals and engineering sector in North Lincolnshire boasts more than 90 businesses and almost 6,000 employees
- Greater Grimsby acts as the centre for many supporting industries, such as engineering and logistics, which in the wider Humber region employs around 15,000 people in 120 companies.
- The School of Engineering at the University of Lincoln was the first purpose-built School of its kind in over 20 years.

Lesson Plans

Off-the-shelf resources

The lesson plans linked below are ready to go, and all link to the Manufacturing sector in some way.

You can learn more about linking careers to the curriculum [here](#)

[Maths](#)

[Computer Science/IT](#)

[Product Design](#)

[Design Technology](#)

[Textiles](#)

[Food and Nutrition](#)

[Physics](#)

[Chemistry](#)

[Biology](#)

Supporting resources:

[Manufacturing | Business Lincolnshire | Business Lincolnshire](#)

Made In Lincolnshire - [PowerPoint Presentation \(businesslincolnshire.com\)](#)

Advances Engineering and Manufacturing Investment Opportunity - [gr-lincs-aem-investment-opportunity-2021-v1.pdf \(businesslincolnshire.com\)](#)

Greater Lincolnshire Engineering and Manufacturing Network (GLEAM) information - [gleam-digital-welcome-booklet.pdf \(businesslincolnshire.com\)](#)



Connecting to Employers

Explore Manufacturing Businesses in Greater Lincolnshire

There are dozens of Manufacturing and Engineering organisations in our area. Ask your Enterprise Coordinator for contact details if you want to connect to any of the local employers on the right...

Did you know...

Micronclean in Skegness also has a base in Louth and Grantham. The business manufactures cleanroom products such as disinfectants, chemical sprays and clothing.

Micronclean is always innovating, researching and trialling new products in its lab.

The business employs a huge variety of skilled people, from seamstresses to Research and Development Project Managers.



Manufacturing businesses in South Kesteven, Lincolnshire are opening their doors to the public on Thursday 7th July 2022. Book here to take your students along: [GLEAM-SK \(South Kesteven\) Events | Eventbrite](#)

Find Out More

Many schools, colleges and Universities offer related courses to Manufacturing and Engineering. Here are some useful, local and national links:

[Boston College EMAT Centre](#)

[Engineering, Lincoln College](#)

[Engineering | Grantham College](#)

[University of Lincoln School of Engineering](#)

[GIFHE Engineering](#)

[North Lindsey College](#)

[National Centre for Food Manufacturing |
College of Science | University of Lincoln](#)

[HETA Engineering Apprenticeships and Training](#)

[Energy, Engineering and Renewable industries
in the Humber | CATCH \(catchuk.org\)](#)

[MAKE UK - Apprenticeships in Manufacturing](#)

[Manufacturing | Explore careers
\(nationalcareers.service.gov.uk\)](#)



CASE STUDY

Manufacturing Employers in Greater Lincolnshire

Darren Joint, Managing Director of Viking Signs and EA at West Grantham Church of England Secondary Academy

The Enterprise Coordinator and EA from Viking Signs supported Walton Academy, Grantham for their Life-Skills/Employer Takeover Day.

Viking Signs employees spoke about their career journeys and then set a curriculum challenge. Students were tasked to design a safety sign. This encouraged teamwork, innovation, listening, leadership and delegation.

The winning sign will be produced and used in industry.

Noble Foods: working in partnership with SEND settings

The Aegir Specialist Academy in Lincolnshire has an aim to: “inspire creative learners to success and flourish in tomorrow’s world.”

To mark National Careers Week in March, Alan Mackay (Transport Manager), Darrel Sly (Class 1 Driver) and Kirsty Black (HR Business Partner) of Noble Foods, Gainsborough visited the Academy with a HGV to answer student questions about their industry. Conversations covered professional driving, Transport Management and Health and Safety in the workplace.

All students were engaged and given the opportunity to sit in the driver’s seat (with Darrel) and ask further questions.

The team also attended a celebration assembly and presented students with certificates.



Contact your local Enterprise Coordinator via LEP_ECS@lincolnshire.gov.uk for more information



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