is a unique opportunity to revolutionise manufacturing within Victoria and create the industry, workforce and leaders of the future.

Smart manufacturing combines robotics, machine learning, digital technologies and remote monitoring.

Smart manufacturing will be at the heart of the Monash National Employment and Innovation Cluster (MNEIC), Victoria’s largest employment hub outside Melbourne CBD and a critical mass of leading education, health and research facilities, supporting:

- 95,000 JOBS
- 14,000 BUSINESSES
- 40% MANUFACTURERS
- $9.4B ANNUAL CONTRIBUTION TO THE VICTORIAN ECONOMY

Monash Smart Manufacturing Precinct (MSMP) will be at the heart of the Monash National Employment and Innovation Cluster (MNEIC), Victoria’s largest employment hub outside Melbourne CBD and a critical mass of leading education, health and research facilities, supporting:

Industry, students and world-class researchers will converge to transform manufacturing and generate a pipeline of:

- NEW BUSINESSES
- AND ENTREPRENEURS
- TRANSFORMED INDUSTRY
- FUTURE WORKFORCE

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WOODSIDE FUTURELAB is a globally-connected innovation hub working with researchers and experts to solve industry challenges and create new opportunities.

MONASH CO-OP AND INDUSTRY BASED LEARNING places students with key industry partners where new skills and existing knowledge combine to prepare for future employment.

MONASH STUDENT TEAMS boldly tackle challenges and compete internationally.

MONASH SMART MANUFACTURING PRECINT will build on these successes and bring together industry, innovators and teams of students to collaborate on developing smart manufacturing solutions to industry challenges.

THE GENERATOR is a hub of entrepreneurial mentoring, guiding ideas into start-ups, investment and future companies.

MONASH STUDENT TEAMS
14 TEAMS
500 STUDENTS
$400K ANNUAL SPONSORSHIP

MONASH CO-OP AND INDUSTRY BASED LEARNING
50 INDUSTRY PARTNERS

500 STUDENTS
14 TEAMS
$400K ANNUAL SPONSORSHIP

BUILDING ON SUCCESS
Monash Smart Manufacturing Precinct will deliver a workforce and industry skilled to deliver future manufacturing.

**New Business and Entrepreneurs**

1. **THE GENERATOR**
   - Entrepreneurial support programs
   - Business plan development
   - Ideas to investment

2. **UP-LINK**
   - University-Partner (UP) collaboration
   - A hive of activity and connection, informal, incidental meeting spaces
   - Start-up suites

3. **CO-LAB**
   - Industry partners and primary site of interaction with students and researchers

4. **MONASH MAKERSPACE**
   - 500 students
   - 14 multi-disciplinary teams
   - $400k industry sponsorship in 2019

5. **DESIGN-HUB**
   - Interactive spaces for process, product design and data analytics

6. **TEAM-408**
   - A place for student teams to interact, collaborate and mentor each other

**Precinct Facilities**

7. **MONASH ROBOTICS**
   - State-of-the-art human-robot interaction facility

8. **BIOPROCESSING PLANT**
   - A smart plant for testing of bioprocessing techniques

9. **INDUSTRIAL IOT**
   - Expertise in monitoring, simulation and analysis for machine performance

10. **WOODSIDE BUILDING FOR TECHNOLOGY & DESIGN**
    - Australia’s smartest building
    - Data Futures Lab
    - Machine-learning and data analysis

11. **IMMERSIVE ANALYTICS LAB**
    - Virtual and augmented reality environments for data accessibility and visualisation

12. **COLLABORATIVE RESEARCH SPACE AND BEE+ PAVILLION**
    - Prototype and development-focused makerspace and a living lab targeting advances in sustaining natural and agricultural ecosystems

**Future Workforce and Transformed Industry**

1. **THE GENERATOR**
   - Entrepreneurial support programs
   - Business plan development
   - Ideas to investment

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    - Prototype and development-focused makerspace and a living lab targeting advances in sustaining natural and agricultural ecosystems
MONASH CLAYTON CAMPUS

is an ecosystem of state-of-the-art research and development, world-class infrastructure and an endless pool of talent.

41,000 STUDENTS

27 LEADING RESEARCH AND DESIGN FACILITIES

$413.8M RESEARCH REVENUE

The Generator is a space for innovative thinkers, change-makers and entrepreneurs.
It is a platform to challenge the status-quo, bring ideas to life and unlock new talent, and home for students and academics to grow start-ups into new businesses and industry of the future.

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is a space for innovative thinkers, change-makers and entrepreneurs.
It is a platform to challenge the status-quo, bring ideas to life and unlock new talent, and home for students and academics to grow start-ups into new businesses and industry of the future.
Up-Link will be a hive of activity, the central spine linking all components of the Precinct. It is where industry partners, start-ups and students transform into the industry businesses and workforce of the future.

Maximum transparency between adjacent spaces and facilities encourages observation and cross-disciplinary learning.

The adjacent Monash Makerspace allows ideas to be rapidly developed into prototypes, reviewed and further refined.

The existing shared kitchen and lounge is a nodal point which will maintain persistent activity and energy within UP-LINK.

A central, striking presentation wall running throughout to communicate ideas and facilitate presentations.

Bench seating and café-style furniture facilitates spontaneous discussion between students and visitors.

Minimum transparency between adjacent spaces and facilities encourages observation and cross-disciplinary learning.

The existing shared kitchen and lounge is a nodal point which will maintain persistent activity and energy within UP-LINK.

A collaborative digital display showcasing new ideas and research.

Maximum light, sightlines and connection to all adjacent spaces.

Double-height spaces provide a connection with activity occurring on the ground floor and people passing through from UP-LINK.

Collaborative, entrepreneurial office spaces.

Informal discussion spaces for interaction between laboratories and offices.

A collaborative digital display showcasing new ideas and research.

Maximum light, sightlines and connection to all adjacent spaces.
Prototypes are made production-ready through the application of industry-leading design and simulation software tools.

Bring your own device (BYOD) users are supported to work on the go with informal work spaces and meeting pods.

On-site pilot HPC platforms complement cloud-based resources, allowing companies to benchmark new hardware and server management systems.

High performance design workstations are arranged for seamless collaboration, review and decision making.

Self-led, cross-faculty teams run complex projects, including costings, purchasing, design, manufacture and testing.

Monash Makerspace is a state-of-the-art fabrication facility and prototyping centre with deep-rooted links to local industry. It is a hub of youthful ambition where students engage with and develop skills for future manufacturing.

**MONASH MAKERSPACE**

**DESIGN-HUB**

Design-Hub will be a collaborative computational lab which seamlessly links digital design to manufacturing. A space supporting process and product design by harnessing digital modelling, artificial intelligence and machine learning.

Self-led, cross-faculty teams run complex projects, including costings, purchasing, design, manufacture and testing.
Team-Hub is a place for project teams to collaborate and innovate by industry in conjunction with industry to be mentored by alumni.

Infrastructure to support team and club development
Close proximity to the Engineering courtyard, Makerspace and Design-Hub
Pilot space for student-led recycling and food waste initiatives
Open-plan communal facilities to support multi-disciplinary student interaction
Welcome alumni and industry representatives to connect to talk business
Demonstration, exhibition, presentation capability

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