SWINBURNE UNIVERSITY OF TECHNOLOGY

ADVANCED APPRENTICESHIP PILOT

ASSOCIATE DEGREE OF APPLIED TECHNOLOGIES (INDUSTRY 4.0)

Swinburne has been the leader in Australia in the roll-out of Industry 4.0 curriculum into the VET Sector to raise awareness, capacity and adoption. The Associate Degree of Applied Technologies was introduced in 2017 with a focus on Advanced Manufacturing. The course was delivered using a higher apprenticeship model with Siemens as a major employer.

The course will ensure that graduates are work-ready through engagement in:

- **Workplace Higher Apprenticeship**
- **Learning Integrated Work**

LEARNING INTEGRATED WORK

Swinburne's Applied Learning program supports Higher Apprentices with hands-on practical learning experiences in the workplace. This enables them to immediately transfer into industry practice the skills and knowledge acquired on campus.

In addition to a range of technology applications graduates of the Associate Degree will bring a high level of problem-solving, project management and communication skills to the industry – becoming powerful change agents for the integration of new technologies. Within the program, graduates are encouraged to work in collaborative teams, crossing traditional boundaries to spark technological solutions from fresh-thinking approaches.

ADVANCED APPRENTICESHIP PILOT

Swinburne has received funding from the Australian Government's Department of Education, Skills and Employment to conduct a new pilot for a two-year training program in the Associate Degree of Applied Technologies focussing on Industry 4.0 skills and advanced manufacturing technologies.

This pilot is aimed to provide small to medium-sized businesses an opportunity to re-skill employees or hire new advanced apprentices to develop the skills and capacity of the business.

EXPRESSION OF INTEREST:
http://swi.nu/advapp

THE COURSE:
http://swi.nu/adat

UPSKILL INTO INDUSTRY 4.0

YEAR ONE

- **EAT10008** Working in Industry 4.0
- **EAT10024** Artificial Intelligence for Industry 4.0
- **EAT20016** CAD/CAM and Engineering Materials
- **EAT10009** Engineering and Electrical Skills for Industry 4.0
- **EAT20017** Industrial Networking and Cloud Computing
- **EAT10011** Object Oriented Programming: Industrial Control Systems
- **EAT10012** Digital Control Systems
- **EAT20018** Cyber Physical System Integration

YEAR TWO

- **EAT20019** Software Tools for Industry 4.0
- **EAT20020** Advanced Digital Control Systems
- **EAT10013** Robotics and Digital Twin
- **EAT10015** Distributed Control in a Smart Factory
- **EAT20021** Advanced Electrical Machines
- **EAT10014** Cyber Security and Cloud Services
- **EAT20022** Predictive Engineering Analytics
- **EAT20023** Innovation for Industry 4.0

SEE WHERE SWINBURNE CAN TAKE YOU

VISIT http://swi.nu/advapp

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