

農業機械實習工廠

► Agricultural Machinery Workshop

成立宗旨

農業機械實習工廠成立宗旨包括支援農業機械試驗研究、教學實習、農機性能測試、新型農機之研究改良與示範工作及提供有關農機作業之服務，並協助培養高科技生物產業機械技術人才。

工作目標

- ◆ 加強與院內各系所擔任實習相關課程教師配合，提供教學所需之空間與儀器設備。
- ◆ 協助院內各系所碩、博士班研究生從事試驗研究工作。
- ◆ 改善工廠實習環境與教學設備。
- ◆ 建立研發與測試實驗室，提供教師與學生教學及研究使用。



▲ 農機工廠前門
Front view of AMW



▲ 農機工廠後門
Rear view of AMW

組織

本廠置廠長一人，由生物產業機電工程學系教師兼任，並置工友一人、技術師一人。



▲ 機械加工區
Machining Area

功能

- ◆ 提供學生教學實習之空間與設備。
- ◆ 提供新型農機開發與試驗所需設備與技術。
- ◆ 提供農機具與各類工具等設備，協助校內各單位教學研究及實習使用。



▲ CNC加工中心機
CNC machine center

任務

- ◆ 協助院內各系所在本廠內進行各項教學實習課程，支援教學所需之設備與材料，提供相關技術指導。
- ◆ 協助生物產業機電工程學系教師於本廠執行相關研究計畫。
- ◆ 支援學校各單位，從事與農機相關之作業。

未來發展方向

- ◆ 提昇工廠之教學與推廣功能與支援各項學術研究。
- ◆ 發展生物產業科技。

Aim and Goals

The aim of the workshop is to support the testing and studies of agricultural machinery, student shop practice, performance tests of agricultural machinery, and improvement and demonstration of new types of machines as well as offer agricultural operations services and training, and promote the advanced technology required by Bioindustrial Mechatronics Engineering professionals.

Main Goals

- ◆ Offer space and instruments for related practice classes of the Department of Bioindustrial Mechatronics Engineering and other CANR departments.
- ◆ Assist graduate students of the Department of Bioindustrial Mechatronics Engineering in testing and research.
- ◆ Improve workshop environments, teaching facilities, and safety instruction.
- ◆ Establish a general research and testing laboratory for faculty and students.

Organization

The personnel organization of the workshop includes a director assigned from the faculty member of the Department of Bioindustrial Mechatronics Engineering, a maintenance worker, and a technical worker.

Functions

- ◆ Provide space and facilities for workshop practice classes.
- ◆ Provide facilities and technologies for developing new agricultural machinery.
- ◆ Provide agricultural machinery and tools for all units of NCHU.

Missions

- ◆ Assist the Bioindustrial Mechatronics Engineering Department and all other CANR departments to conduct teaching and practice activities and provide the necessary instruments, materials, and instruction of related technologies.
- ◆ Assist the faculty of the Bioindustrial Mechatronics Engineering Department to conduct research projects.
- ◆ Support all units of this university in agriculture-related operations.

Future Development Direction

- ◆ Raise the abilities in teaching and academic research.
- ◆ Develop computer-aided designs and manufacturing skills to increase the manufacturing quality.