Practice and Prospect of Human resource development of Nanjing Research Institute for Agricultural Mechanization (NRIAM)

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I. Brief Introduction of NRIAM
Nanjing Research Institute for Agricultural Mechanization (NRIAM), Ministry of Agriculture.

Established in 1957.

A public national research institute in agricultural engineering.
Mainly responsible for

- Technological innovation of agricultural equipment;
- Quality testing;
- Education training;
- Etc.
During the early time from the establishment

- Developed the **first** rice transplanter in the world;
- Achievement in machinery for crop protection, charge plough paddy field, walking tractor, rotary cultivator and threshing machine;
During the early time from the establishment

- Carried out a large number of agricultural mechanization mode and policy research;
- Set standards of agricultural quality and machinery operation
At present, NRIAM has extended the scope to further research field …

- Machinery for food crops;
- Machinery for economic crops;
- Facility equipment and engineering in agriculture;
- Crop protection and environment engineering technology;
At present, NRIAM has extended the scope to further research field …

- Agricultural products processing engineering technology;
- Agricultural resources development engineering technology
- Agricultural machinery quality test and control technology;
- Agricultural mechanization policy and technology model.
II. General situation of agricultural mechanization of human resources development
NRIAM has a staff of 260 with 24 researchers and 61 associate researchers.
Divided in 11 key disciplines:

- machinery for tillage and soil preparation
- machinery for planting and sowing
- equipment for crop protection
- machinery for underground fruit harvesting
- machinery for crop grain harvesting
- machinery for fruit, vegetable and tea harvesting
Divided in 11 key disciplines:

- machinery for crop stalk harvesting
- equipment for agro-product classification and storage
- technology and equipment for agro-product processing
- equipment for biomass conversion and utilization
- agricultural mechanization and system assessment
In the aspect of agricultural mechanization of human resources development:

1) Formulating concessional introduced intelligence policy to attract high-level talents for domestic and overseas;
2) Establishing incentive system of science and technology evaluation;
3) Encouraging researchers to update their knowledge, more cooperation with universities and enterprises at home and abroad.
In the aspect of cultivation of graduate students:

- NRIAM has right to confer Master’s Degree and Doctoral Degree, with 3 doctoral tutor and 30 master student supervisor;
- Combines training with Nanjing Agricultural University (NAU) and Anhui Agricultural University (AAU) of the postgraduate, has 50 graduates in institute at present.
In the aspect of domestic agricultural mechanization talent training:

- NRIAM has a National Agricultural Mechanization Training Center;
- Conducts trainings on aspects of senior management personnel, technical personnel and leaders of cooperatives and family farms of agricultural mechanization,
- With a total account in organizing 10 training courses annually (more than 300 trainees).
In the aspect of Foreign agricultural engineering technical training:

- Holding “Aquatic products or livestock and poultry breeding technology training” annually in Vietnam, Thailand and other ASEAN countries;
- In 2014, “Rice production mechanization technology training” successfully organized toward ASEAN and African countries.
In the aspect of Foreign agricultural engineering technical training:

- This year, 2015, NRIAM has conducted a training oriented to SCO countries, named “Policies supporting agricultural mechanization and technology management workshop”.

III. Future plan on human resources development
➢ Good opportunities
➢ Future works
Good opportunities

• The Strategy of reinvigorating China through human resource development and innovation-driven;
• Modern agricultural development steps into an era of mechanization;
• Agricultural "Go Out" and “One Belt and One Road” strategy.
➢ Future works

A. Strengthen international cooperation and communication in agricultural equipment technology;

B. Organize more training courses toward agricultural mechanization talent in Asia-Pacific region;

C. Set up the mechanism of agricultural mechanization normalization of cooperation in the Asia-Pacific region.
Future works

A. Strengthen international cooperation and communication in agricultural equipment technology

   a. Technology project cooperation
   b. Talent exchange training
   c. Build mechanization demonstration farms in expect of comprehensive experiment and demonstration on variety, agriculture and mechanization technology
Future works

B. Organize more training courses toward agricultural mechanization talent in Asia-Pacific region

a. Training Key Fields
   a) Quality inspection of agricultural machinery
   b) Rice production mechanization
   c) Conservation tillage technology equipment
   d) Agricultural pesticide technology and equipment
   e) Small tractors and complete set of agricultural machinery use, etc.
Future works

B. Organize more training courses toward agricultural mechanization talent in Asia-Pacific region

b. Master graduate students will be more recruited
C. Set up the mechanism of agricultural mechanization normalization of cooperation in the Asia-Pacific region.

More Connection with agricultural machinery technology organizations, academy, Industry Association and agro-machinery enterprises in Asia-Pacific countries.
Future works

C. Set up the mechanism of agricultural mechanization normalization of cooperation in the Asia-Pacific region.

Expectations

- Forming a regular contact consultation mechanism;
- Hosting academic conferences;
- Communicating research progress;
- Promoting scientific research achievements conversion applications.
Contact

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Thank You