S4C, funded by SECO (Swiss State Secretariat of Economic Affairs), is collaborating with Indonesian line ministries and industries to establish dual VET (vocational education and training) system through selected polytechnics/community academy build concepts, methods and action plans for implementing industrial cooperation or PSC (Private Sector Cooperation). The main output will be competent graduates employed by industries. S4C implementation started in July 2018.

Partners: Bern University of Applied Sciences (BFH-CDC), Association for Swiss International Technical Connection (SITECO), Agency for Industry Human Resource Development (BPSDMI) of the Ministry of Industry (MoI) and Ministry of Research, Technology and Higher Education (MORTHE).

**Industrial Cooperation**

Collaboration between education institutions and industries is one of key elements of dual vocational education and training. S4C helps partner polytechnics and community academy build concepts, methods and action plans for implementing industrial cooperation or PSC (Private Sector Cooperation).

PSC activities can take various forms: internships, company visit, guest lecturer, career guidance, school promotion, curricula development, and project-based learning. It is recommended that a Memorandum of Understanding (MoU) between school and company be established as written guidelines for both parties. The leader of educational institutions should establish or strengthen cooperation units that will arrange programs, negotiate with potential private partners, and monitor the implementation of collaborative programs.

“I have learnt a lot from the industrial internship program. It ranges from technical skills, problem solving ability, adaptation on the work environment, and teamwork development to character and responsibility building. The pocket money from company can even relieve my parents. Thank you.”
Subhan Ali, Morowali Polytechnic Student, Central Sulawesi.

**Outlook**

Until August 2019, S4C activities included curricula development, learning semester development plans, training and coaching lecturers, strategic plans development, knowledge sharing forums, peer learning events, branding concept development, re-accreditation process mentoring, teaching factory development, DACUM Facilitators training (in collaboration with STED/ Sustainable Tourism Education Development), teaching factory development, student internships guidance development, and exposure visit to Switzerland.
All students from the first batch or 96 persons of Morowali Metal Industry Polytechnic have been participating in internship at companies within Indonesia Morowali Industry Park. This program takes place in 2019 in semesters 4-5 for 11 months. Before starting the internship, all participants followed the Mandarin intensive course by Hasanuddin University Makassar supported by S4C. One of students, Subhan, suggested that for the next internship program, besides foreign language strengthening program, students need also be given the opportunity to observe the working environment and the machines used before the start of internships. This will help the students better prepared to contribute to the production process at host companies.

Kendal Furniture and Wood Processing Industry Polytechnic Director Tri Ernawati explained that the Industrial Work Practices (prakerin) or internship program is part of the application of dual vocational education and training. This polytechnic carries out internships in semesters 2, 4, and 5 for 4 months respectively. This model allows students to gain new knowledge from the industry, develop it in campus, and return to the industry to improve their skills. 98 students from the first batch completed prakerin stage 1 at 22 companies in semester 2/April-August 2019. S4C assisted the preparation of prakerin manual.

Panji Ibnu Sina (business and management study program), for example, interned at PT Ebako Nusantara Semarang in PPIC (Production Planning and Inventory Control) section and received direct guidance from the PPIC manager. Ebako's HR Manager Harga Jalutama said that the student interns are easily directed and guided to improve hard and soft skills. They quickly adapted to the industrial environment and learned fast about the production process.

As a result of the Private Sector Cooperation workshops facilitated by S4C, Polytechnic Jember is developing Memorandums of Understanding with partner companies. One of them is a five-year MoU with PT Gunanusa Eramandiri. This company is based in Pati (Central Java) and employs around 1,000 employees to produce best quality peanuts, cashew, almond and hazelnut for national and regional markets. The MoU covers four areas:

a. Internships for students;
b. Recruitment of employees;
c. Guest speaker and lecturer for Polytechnic activities;
d. Research, Training, Application of technology and other activities aimed at the development of expertise of polytechnic and industry of human resource.

Following S4C’s introduction of Bantaeng Manufacturing Community Academy to PT. JAPFA in April 2019, 48 students of the first batch visited the company on August 22, 2019. The main business of this company is animal feed, chicken breeding, poultry processing, and agricultural cultivation. Japfa HR Manager Imran Ibrahim said that Bantaeng AK-Manufacturing students can do internships in this company for six months. After they complete study the company may recruit them as employees if vacancies are available.

The school’s head of industrial relations Abdul Rahman Supu explained this visit was to provide insight to the students related to industrial work culture, production processes, factory control systems, laboratory testing, and packing process.