**INDUSTRY PARTNER**

- Train, educate, retain, promote
- Develop talent management
- Reconnect with higher education
- Professional development (learn, mentor)
- Affordable, leveraged labor
- Preview of potential employees (reduced hiring costs)
- Exposure of students to industry culture

**STUDENTS**

- Project-based learning
- Exposure to leading edge technology
- Career track
- Affordability and accessibility
- Decreased tuition costs
- Educational funding opportunities
- Networking and placement opportunities

**FACULTY**

- Research with global application and recognition
- Professional development opportunities
- Networking opportunities
- Development and engagement pipeline
- Research and scholarship opportunities

**IMPACT**

- “Bundled Package” @ Fixed Price

**POTENTIAL OFFERINGS**

- Traditional B.S.: 3 years
- Research B.S.: 3 years
- Competency-Based Degree: 3 years
- E-MBA Aviation: Krannert School of Management
- Traditional M.S.: 1 year
- Research M.Phil: 1 year
- Combined M.Phil/Ph.D.: 3 years
- Research Ph.D.: 3 years

**VIRTUAL PIPELINE INDUSTRY**

- Undergraduate Graduate
- Short Courses
- Certificates
- “Other”

**Support Units**

- Additional Industry Partners

**HORIZONTAL PIPELINE PURDUE**

- Partner

**ENTER VERTICAL PIPELINE**

- AirTies
- A³R-CORE
- AMT-I

**PEAGASAS FAA Center of Excellence**

**Research Centers**

**Learning Environment**

- Physical (Satellite Campuses within Network)
- Virtual
- Purdue Aviation (FBO)
- Purdue Aerospace District
- Purdue University Students Faculty Staff

**Mentorship**

- Undergraduate
- Graduate
- Certificates
- “Other”

**“Named” Entity (Branded Partnership)**

- PARTNER HQ / NETWORK LOCATION(S) & PURDUE UNIVERSITY
- WEST LAFAYETTE, IN

**Research with global application and recognition**

**Networking opportunities**

**Development and engagement pipeline**

**Research and scholarship opportunities**

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Overview

iPOP is an innovative education and training model that provides: affordability and accessibility, STEM leadership, world-changing research, and transformative education.

The iPOP model is based on industry partnerships with the creation of a branded entity between Aviation & Transportation Technology (SATT) and individual partners and their supporting units. Industry partners will include airlines, airports, aircraft manufacturing companies, engine manufacturers, flight training organizations, simulation manufacturing organizations, government agencies, and industry trade associations. Physical and virtual learning environments are created providing education and training to Purdue students and employees at the industry partners via two pipelines (Purdue Student Pipeline and Industry Partner Pipeline).

Purdue Research Park Aerospace District

Participants in the iPOP partnership will have access to the emerging 986 acre Purdue Research Park Aerospace District which includes the Purdue University Airport. This facility will become an integration of aerospace clusters incorporating industry, government, and academia to facilitate growth and transformation in the aviation and aerospace industries.

Purdue Student Pipeline

In the Purdue Student Pipeline, SATT students select an academic path from day one ("bundled package" at a fixed price). The pathway includes opportunities for accelerated undergraduate and/or graduate degrees, certifications, embedded experiences with industry (i.e., internships), guaranteed interviews with industry partners, and an increased opportunity for employment with industry partners. The curriculum is based on industry trends, challenges, opportunities, and strategies. Industry partners provide real life scenarios requiring addressing and Aviation Technology faculty, students, and staff provide solutions.

The School of Aviation & Transportation Technology expects existing programs to grow and new curriculum offerings will be offered through the creation of new undergraduate and graduate programs. Such program offerings will include "traditional" degrees and a diverse range of research-based degrees at both the undergraduate and graduate levels.

Throughout the academic journey, Aviation & Transportation Technology students will have multiple opportunities to interface with industry partners. Interaction will take place in the classroom, in the laboratory, at the industry partner’s headquarters, and/or network (local, regional, international). Such interaction will result in multiple opportunities for the students to be mentored by industry professionals as well as provide opportunities for students to mentor employees at the partner locations.

At select points during the academic journey, the Purdue Student Pipeline will intersect with the Industry Partner Pipeline. Aviation & Transportation Technology students will learn in the same physical and virtual learning environments as employees from the industry partners.

Industry Partner Pipeline

In the Industry Partner Pipeline, select employees at the industry partners will have opportunities to pursue further education and training within their respective divisions, departments, or units. Programs will be instructed by Purdue faculty and/or limited term lecturers in physical and virtual learning environments. Certain industry partner employees meeting Purdue standards and qualifications may be employed as limited term lecturers entering train the trainer programs. The combination of Purdue faculty and industry partner lecturers provides an enhanced learning experience for all participants.

In this pipeline, industry partner employees will have the opportunity to pursue further education and training initiatives on a volunteer basis while others will be mandated by the employer depending on needs of the organization. Such opportunities will include undergraduate degrees, graduate degrees, short-courses, seminars, and certifications customized to the organization’s need.

Industry-sponsored programs will grow and become more diversified in terms of offerings. The scalability of such programs is unrestricted and has global application.

Throughout the education and/or training journey, employees at the industry partners will have multiple opportunities to interface with Purdue Aviation Technology students, faculty, and staff. Interaction will take place in the classroom, in the laboratory, at the partner’s headquarters, and/or network (local, regional, international). Such interaction will result in multiple opportunities for industry professionals to be mentored by students which greatly assists in future planning in terms of corporate culture, productivity, efficiency, employee transition, and employee recruitment.

Impact on Students, Faculty, Industry Partners

The iPOP education and training model strives to create the employee of the future based on industry needs and demands. It also assists in enhancing the knowledge and skills of existing industry professionals making them better at their jobs and creating internal advancement career opportunities.

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