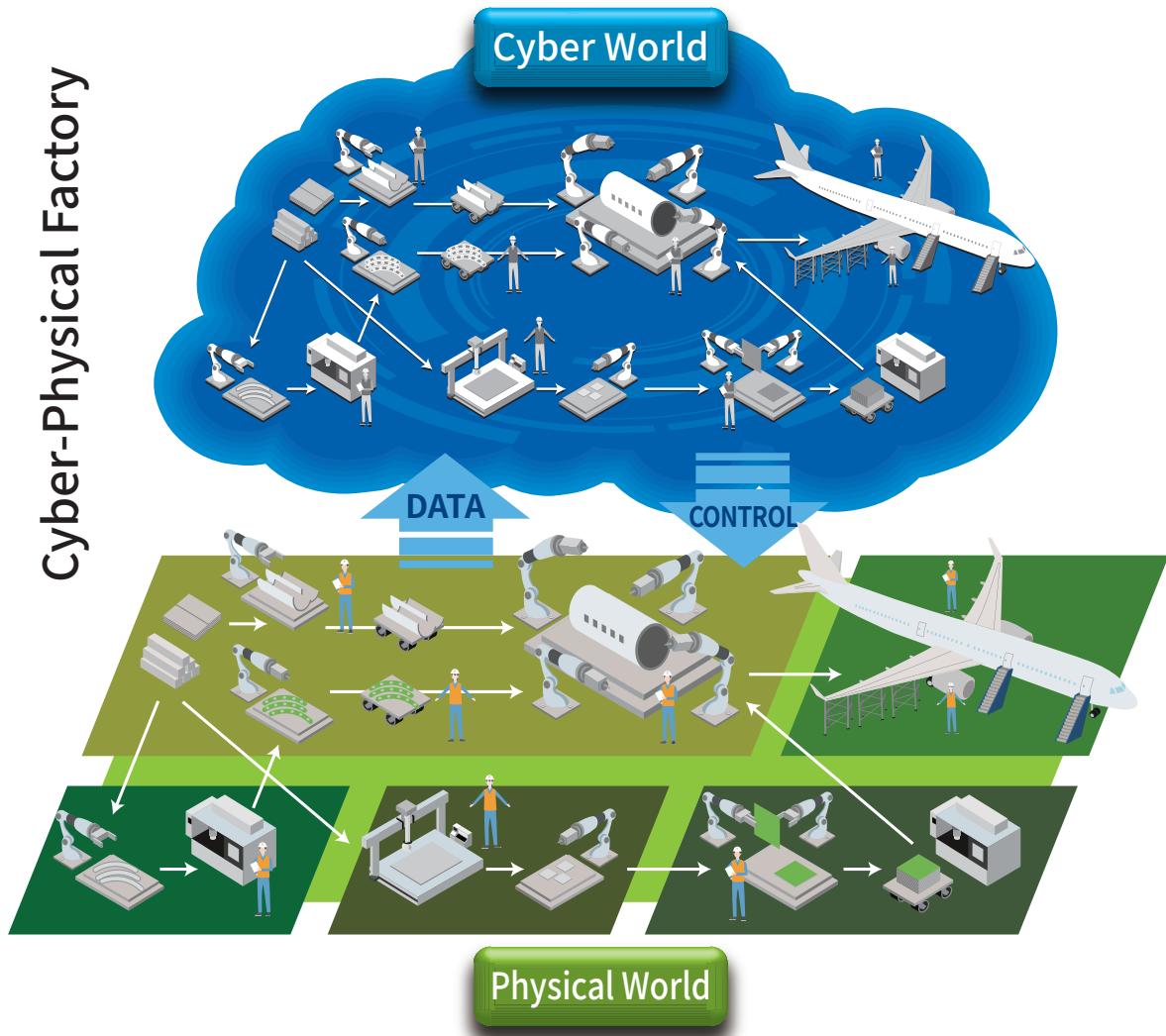




航空宇宙生産技術開発センター

INTELLIGENT PRODUCTION TECHNOLOGY RESEARCH & DEVELOPMENT CENTER FOR AEROSPACE



About

The Intelligent Production Technology Research & Development Center for Aerospace (IPTeCA) was established as Japan's foremost educational and research institution focusing on "production technology" with the support of a grant from the Cabinet Office and a subsidy from Gifu Prefecture. The center is active in the fields of human resource development and research and development with the aim of solving the various manufacturing issues faced by the aerospace industry.

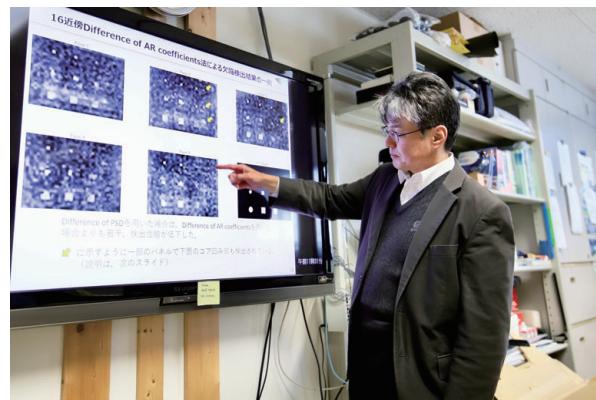


Research & Development

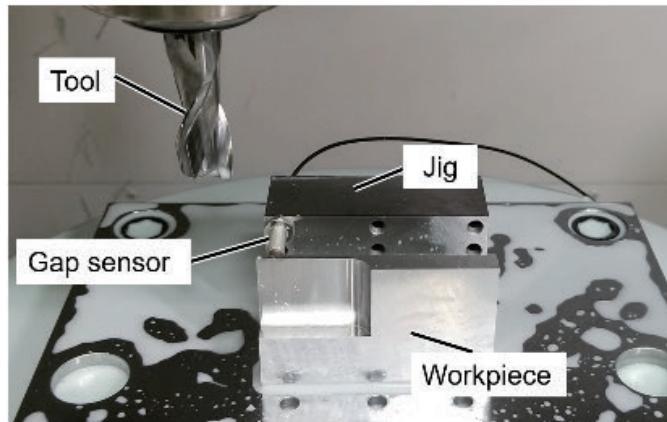
R&D goal of the IPTeCA is to realize a Cyber-Physical Factory (CPF) for the aerospace industry. the CPF will bring innovative manufacturing technologies to the aerospace industry. Cyber-Physical Systems (CPS) technology is applied to link and integrate manufacturing equipment and products in the physical world with models in the cyber world through IoT. AI, data analysis, and computer simulations are applied to the cyber models, and the results are feedback to the physical entities to compare and improve the physical entities and cyber models. The entire factory and supply chain in the physical world will be optimized using CPF.

Data Science

- Data Analysis
- Artificial Intelligence (AI)
- Simulations
- Optimization



Big-Data Analytics



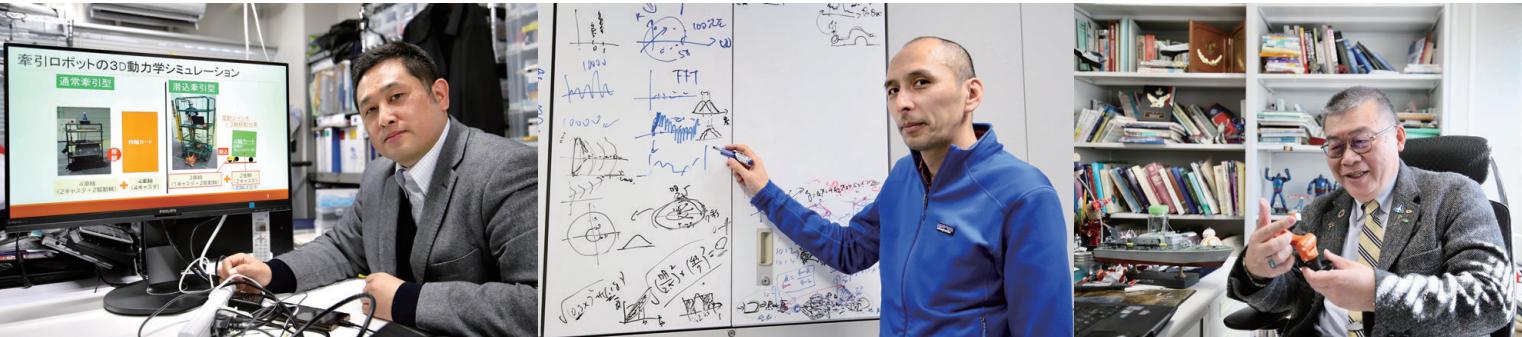
Highly Efficient Cutting Machine for thin-walled vertical walls

Physical Engineering

- Metal Processing
- Metal/Composite Material Perforation
- Manufacturing Robots
- Mobile Robots
- Quality Inspection

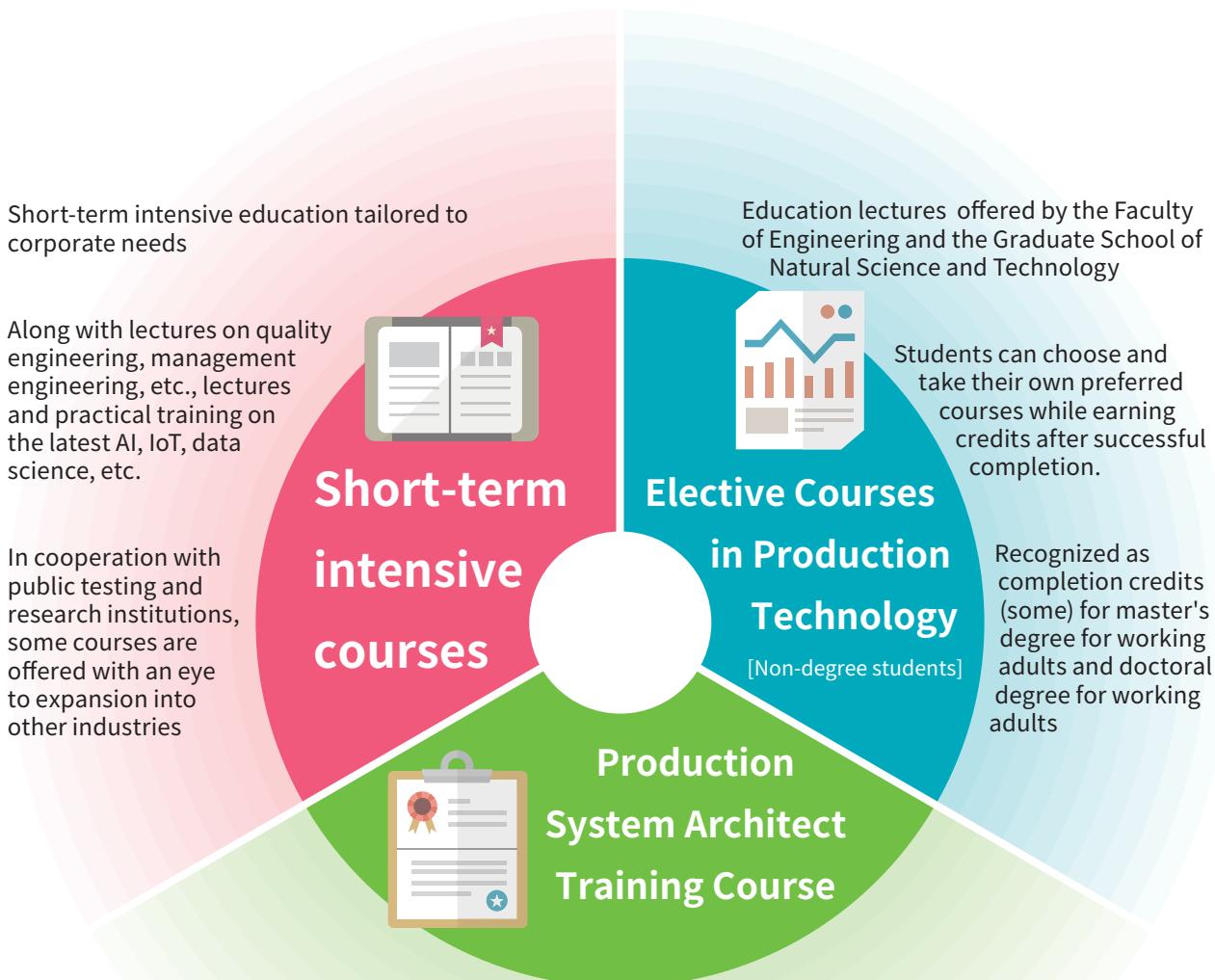


Ultra-Precision Machining Robot



Professional Education Programs for Working Adults

Courses offered in this program are designed to suit various needs and are targeted at university students and professional production engineers.



A total of 60 hours or more of learning with practical training from courses offered by the Graduate School of Natural Science and Technology a short-term intensive courses

Nurture working professionals as production system architects by applied education utilizing state-of-the-art equipment

WEB: <https://www1.gifu-u.ac.jp/~ipteca/>

E-mail: ipteca@gifu-u.ac.jp

TEL: 058-293-3714 (switchboard)



@ipteca_tn



@ipteca_tn



This project is operated under the following grants and subsidies.

[Cabinet Office, Government of Japan]

Grant-in-Aid for Creation of Local Universities and Regional Industries "Human Resource Development and Research and Development of Production Technology for the Formation of Japan's Foremost Aerospace Industry Cluster"

[Gifu Prefecture]

Subsidy for aerospace industry production technology human resource development and research and development project

Instagram and the Glyph are trademarks of Instagram, LLC in the U.S. and other countries.

The publisher, author, and contributing photographers are independent and not affiliated with, endorsed, or sponsored by Instagram, LLC.

Instagram and the Glyph are used with permission by Instagram, LLC.