



Adaptive Concepts Academy
EIN: 39-2854086
Troy, Michigan USA

ACA Project-Based Internship Experience

Adaptive Concepts Academy (ACA) provides project-based volunteer internship opportunities in STEM-related fields. Participants engage in supervised, hands-on project work designed to apply academic knowledge using industry-relevant tools, methodologies, and problem-solving approaches within a nonprofit environment.

Projects are structured to support practical experience, professional development, and portfolio-building through meaningful contributions aligned with each participant's academic background and career goals.

University Student Team Projects (via Riipen.com)

- University of Detroit Mercy – Electrical Engineering (Capstone Lab):
Circuit design and testing for HF 40-meter shortwave radio receiver systems
- University of North Carolina at Charlotte – Environmental Risk Management:
Risk analysis and mitigation strategies for high-population coastal regions
- Arizona State University – Mechanical Engineering:
CAD-based design and modeling of advanced airship concepts
- Northeastern University – Computer Science:
Python-based development and analysis of music data systems (Harmonics/Harmonetics)
- University of Toronto – Computer Science:
Python-based development and analysis of music data systems (Harmonics/Harmonetics)
- Ohio Northern University – Linguistics (English):
Structural analysis of language and sound systems
- Red River Polytechnic – Electrical Engineering Technology:
Design and analysis of electronic systems including radio circuitry and signal devices

- University of Massachusetts Boston – Computer Science:
Python-based development and analysis of music data systems
- University Canada West – MBA (Business Capstone):
Marketing strategy development for healthcare and medical device applications
- Fanshawe College – Ergonomics:
Ergonomic evaluation and human factors analysis for healthcare device concepts
- Northeastern University – Regulatory Affairs:
Regulatory pathway analysis for medical device development
- Arizona State University – Mechanical Engineering:
Thermal analysis and performance modeling of advanced engineering systems

Independent Student Projects

- Arizona State University – Mechanical Engineering:
CAD-based engineering design and technical portfolio development
- Northeastern University – Regulatory Affairs:
Regulatory systems, compliance frameworks, and certification-aligned development
- Northeastern University – Industrial Engineering:
AI-integrated system design for production optimization
- Rutgers University – Data Science / Artificial Intelligence:
Development of AI-based interview and communication tools
- Arizona State University – Electrical & Electronics Engineering:
AI optimization approaches for healthcare-related hardware systems
- Johns Hopkins University – Biotechnology:
Computational analysis of immune-mediated neurological conditions
- Northeastern University – Data Analytics:
Development of data dashboards and analytical reporting tools
- Massachusetts College of Pharmacy & Health Sciences – Pharmacy & Health Sciences:
Analytical chemistry and pharmaceutical quality systems research
- Massachusetts College of Pharmacy & Health Sciences – Pharmacy & Health Sciences:
Quality assurance review and validation analysis of pharmaceutical methods
- Texas A&M University – Mechanical Engineering (Robotics):
Feasibility analysis of distributed aircraft design concepts

- Northeastern University – Regulatory Affairs:
Regulatory strategy development for medical and wearable device technologies
- Northeastern University – Regulatory Affairs:
Clinical documentation, compliance systems, and human subject protection frameworks
- Suffolk University – Project Management (MS):
Project management and process optimization initiatives
- Northeastern University – Cybersecurity:
Cybersecurity analysis, system design, and career pathway development
- Arizona State University – Computer Science:
AI-based application development and system modeling
- Massachusetts College of Pharmacy & Health Sciences – Pharmacy & Health Sciences:
Public health data analysis related to adverse drug events
- Arizona State University – Computer Science:
Development of DevOps tools and automation solutions for small teams and nonprofit environments
- California State University, Long Beach – Construction Management:
Site planning and conceptual design for aerospace-related infrastructure
- Massachusetts College of Pharmacy & Health Sciences – Pharmacy & Health Sciences:
Comparative analysis of pharmaceutical safety data
- Illinois Institute of Technology – Mechanical Engineering:
Engineering design and development of wearable medical support systems
- Massachusetts College of Pharmacy & Health Sciences – Pharmacy & Health Sciences:
Community medication safety research and risk evaluation
- University of Texas at Austin – Finance (Analysis):
Financial analysis and credit decisioning models
- Arizona State University – Aerospace Engineering:
Aerospace systems concepts and career-focused technical development