A-P-T RESEARCH, INC.

AN EMPLOYEE-OWNED COMPANY

Providing Safe Solutions For...

- System Safety
- Flight Test Planning
- System/Risk Analysis
- Range Safety
- Software System Safety
- Standards Development
- Explosives Safety
- Software Development and Modeling
- Industrial and Quality Engineering
- Logistics
- Safety Training

System Safety

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aptinfo@apt-research.com

APT's system safety capabilities include performing and developing system safety analyses and programs, performing and reviewing hazard analyses, preparing reliability and fault tree analyses, developing and maintaining hazard tracking systems, and conducting system safety training.

Flight Test Planning

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APT's flight test planning capabilities include test requirements traceability, test program feasibility, trajectory/scenario development, and national range UDS document development.

Risk Analysis

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Quantitative risk analyses are developed in support of systems, ranges, and explosives safety.

Range Safety

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APT's range safety capabilities include quantitative risk assessment of flight and ground safety hazards, collision avoidance and spacecraft debris risks, range safety system evaluation, user flight termination system design/performance assessment, independent assessment of range safety issues, vehicle breakup modeling for destruct and intercept debris, hazardous procedures validation, evaluation of safety/quality procedures, and vehicle malfunction and safety system reliability assessment.

Software System Safety

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APT's software system safety capabilities include planning and implementation of software system safety programs, performing and evaluating hazard analyses, secretariat support for software system safety working groups, performing independent software safety assessments, planning and implementation of software safety metrics programs, and conducting software system safety training.

Standards Development

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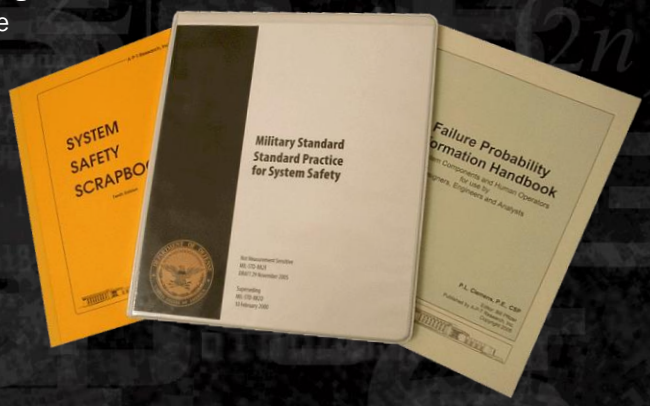
APT has assisted safety organizations in developing concisely written safety standards at the installation, organization, and national levels including RCC standards, DoD standards, and NATO procedures. APT has also assisted in developing multiple regulations at the service and installation levels.



Explosives Safety

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APT provides planning and support, explosives testing, final hazard classifications, interim hazard classification support, insensitive munitions/final hazard classification test plan development, explosives site plan development/support, insensitive munitions support, and site analyses using the APT-developed software tools, IMESAFR© (Institute of Makers of Explosives Safety Analysis for Risk), SAFER© (Safety Assessment for Explosives Risk), and DIRE© (Analysis of Death and Injuries Resulting from Explosions to provide personnel protection).

Software Development & Modeling

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APT develops software using documented processes based on SEI CMM. User friendly tools developed by APT include RTSS (Range Test Scheduling System), SAFER, Ground Risk Model, Debris Risk Assessment, and DIRE. Other capabilities include test planning, flight dynamics, and software verification and validation.

Industrial & Quality Engineering

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APT provides solutions for issues related to product and process design, quality, production planning, and reliability.

APT engineers apply state-of-the-art analytical tools to assist our customers with innovative solutions to satisfy their production and quality needs.

Logistics

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APT provides industrial & quality engineering support for the analysis of global supply chains and distribution systems. APT develops metrics to monitor the forward and retrograde movement of materiel and to identify bottlenecks impeding the flow of goods. The APT process improvement philosophy considers the entire supply chain to ensure proposed solutions are feasible, cost-effective, and will achieve the expected results.

Training

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training@apt-research.com

APT offers professional training at the Safety Engineering & Analysis Center in System Safety Engineering, Explosives Safety, Software System Safety, Risk Management for Safety Engineering, IMESAFR Software, and SAFER Software.

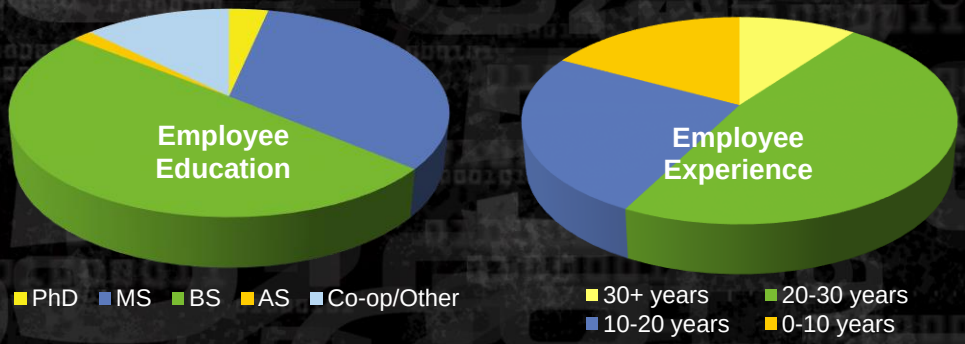
Corporate Background

The mission of A-P-T Research, Inc. is to provide state-of-the-art services to our customers in our areas of specialty. Customer satisfaction is our paramount goal. To achieve this, we have tailored an organization around our specialties. Employee ownership provides a shared culture that motivates employees to bring together the key components of success.

Our reputation for providing customers with the requisite experience, training, analysis, tools, and answers has resulted in a healthy and controlled growth. Each year new customers ask for our services, and existing customers continue their support. We are grateful to these customers for our successes.

Corporate Info: John Fellows, 256.327.3373, aptinfo@apt-research.com.

Experience and Professionalism



Customers

Accurate Energetic Systems
Alaska Aerospace Corp.
American Ordnance
Armag
ASRC
ATF
Axiom Space
BAE Systems
Barnes Bullets
Blue Origin
Boeing
BRPH Architects-Engineers
Butler National
DOT
Dyno Nobel
Leidos/Dynetics
G-48 Committee
Hydroid
iRobot
Kaman
Karagozian & Case
KBR
Lockheed Martin
ManTech
MDA
Nammo-Talley
NASA
Nelson Brothers
Northrop Grumman
Orbital/ATK
Orica
Oshkosh
Parsons
Raytheon
SAIC
Spaceport Canada
Tencate
Textron
United Space Alliance
US Air Force
US Army
US Navy
Virgin Galactic

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