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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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.
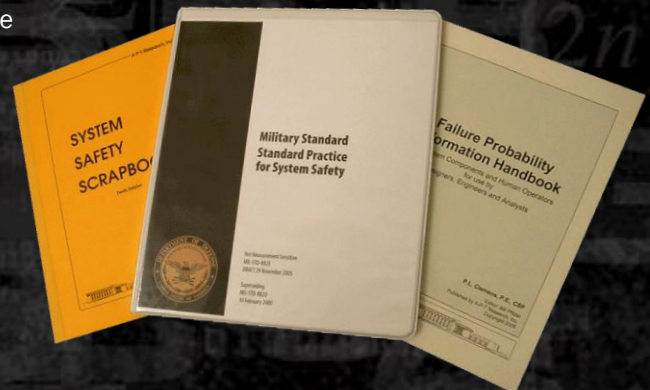
Explosives Safety

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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

Dr. John Hall 256.327.3373
aptinfo@apt-research.com

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.

Contact Us

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Experience and Professionalism

Employee Education
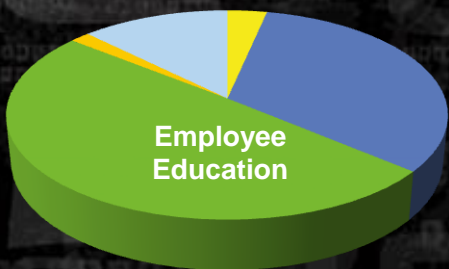
- ■ PhD
- ■ MS
- ■ BS
- ■ AS
- ■ Co-op/Other

Employee Experience

- ■ 30+ years
- ■ 20-30 years
- ■ 10-20 years
- ■ 0-10 years

Customers

Air Force Safety Center	Lockheed Martin	Redstone Test Center
AMCOM Safety Office	LOGSA	Scott AMC
AMRDEC Software Engineering Directorate	Marine Corps System Command	Shannon Explosives, Inc.
ARDEC	NASA Safety Training Center	STEPAL
ASSE		U.S. Army Technical Center for Explosives Safety
Corps of Engineers	NASA Plumbrook	U.S. Coast Guard
Chemical Safety Board	NAVAIR	USASMDC Safety Office
DoD Explosives Safety Board	Naval Surface Warfare Center – IHD	USMC Blount Island Command
Eastern Test Range	MDA/QS	White Sands Missile Range
FAA	PMRF	45th Space Wing
Institute of Makers of Explosives	Raytheon	
iRobot	RBESCT	
	RCC Risk Committee	