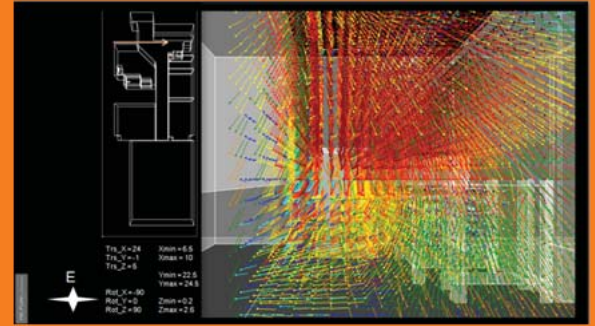


*HyGie-Tech USA Offers HG\_Flow Software, a High Performance, Risk-Oriented, Modeling and Simulation system for preparedness, protection and response planning, addressing the threat of airborne contamination for critical infrastructure protection, pharmaceutical manufacturing, hospitals, biochemical research laboratories and cleanroom operations.*



## Protection Against Airborne Contamination

Hygie-Tech USA is advancing a unique modeling & simulation software technology for protection against airborne contamination in the form of chemical and biological threats and other hazardous materials. HyGie-Tech's software, HG\_Flow is designed to provide precise modeling of both indoor and outdoor environments where potential high value targets and vulnerable installations such as government buildings and chemical, biological and pharmaceutical research laboratories, transportation and other key facilities may be targeted.

## HG\_Flow Threat Analysis

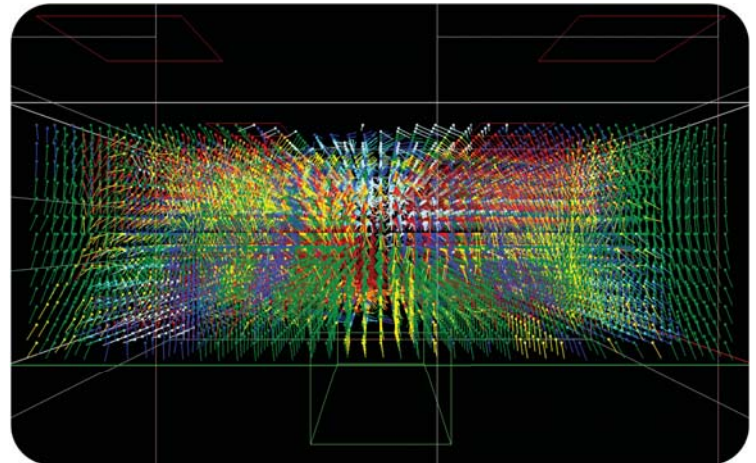
HG\_Flow acquires data from Computer 3D Design (CAD) or Building Information Modeling (BIM) files, a laser scanner or other input devices, allowing it to produce a virtualized 3-dimensional representation of the environment. Once acquired, the system uses proprietary algorithms to process the data and determine where specific types of airborne particles or contaminants will travel, land and accumulate if released into the air. The HG\_Flow software has a complete database of potentially harmful agents defined by their physical characteristics which allow the system to determine – under specific airflow and boundary conditions – where the contamination is present at non-lethal and toxic levels. This data supports provisions for incident response and mitigation planning, eradication of the contaminant and for evacuation of contaminated facilities.

## Introducing roCFD

The HyGie-Tech approach is well-positioned to provide defense against risks associated with the accidental or intentional release of chemical and biological agents or other hazardous substances into an indoor facility or outdoor setting. HG\_Flow software is designed to provide a proactive approach to meeting this type of threat directly. Consequently, risk oriented CFD (or roCFD) is the methodology employed to determine the level of risk in a given threat scenario and used to assist in devising the appropriate response and mitigation strategies to contaminated environments.

## Critical Infrastructure Protection

Through HyGie-Tech expertise and use its HG\_Flow software users are able to take advantage of a complete risk management tool that encompasses the salient principles of risk analysis with the focus on providing rapid and unambiguous assessment of threats driven by specific events. Consequently, US Defense installations, laboratories, cleanrooms, pharmaceutical manufacturers and other critical infrastructure customers are provided with innovative roCFD solutions that improves protection and readiness against the threat of airborne contamination with a level of speed and accuracy other solutions cannot provide.





## Features & Performance

### HG\_Flow Threat Analysis

HG\_Flow employs proprietary calculations and methods specific to the type of threat, which provides markedly reduced calculation and processing times.

### Precision and High Fidelity

HG\_Flow acquires data from digital files and scanning devices. HG\_Flow is then able to precisely reproduce the facility, including equipment and personnel and generate the mapping for direct CFD integration, creating millions of data points resulting in incredibly accurate calculations.



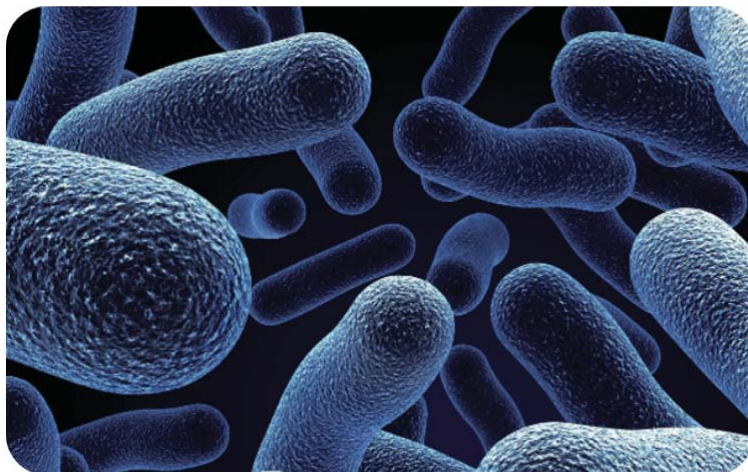
### Threat Database

The system accesses a database containing a broad compilation of contaminating agents and hazardous materials. The physical and chemical properties of each substance is quantified so that based on other vectors and environmental conditions, the behavior of the particles and attendant levels of toxicity can be readily established.

## Quality by Design

Designed and developed by airborne contamination and airflow experts, the HG\_Flow system has been thoroughly tested and validated in numerous applications across the European Union.

In addition to its rapid calculation and processing times, accuracy and ability to quantify toxic levels of contaminants, the system provides total security and encryption for all data uploaded or downloaded into the system.



## For More Information Contact:

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