

The Applied Technology Center - ATC

ATC Mission:

Provide continual and rapid evaluation, validation and transition assistance of new off-the-shelf technologies, and identify emerging technologies ("technology discovery") to fill critical gaps in force protection, rapid diagnostics, epidemiology, and preventive medicine, including CBRNE identification, to meet Air Force global mission requirements



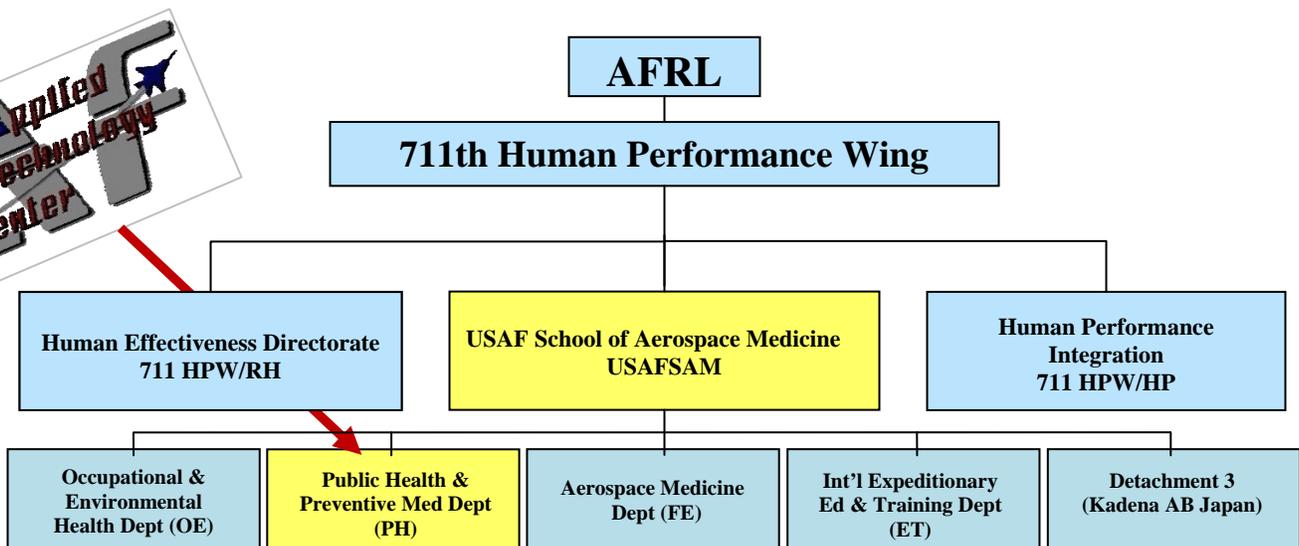
In March of 2008 the Air Force Research Laboratory's (AFRL) historic activation of the 711th Human Performance Wing culminated two years of strategic planning. The standup of the Wing created the first human-centric warfare wing to consolidate research, education, and consultation under one organization. During the standup of the new wing the USAF School of Aerospace Medicine merged with AFIOH placing the ATC under the Public Health and Preventive Medicine (PH) department of USAFSAM.

The 711th Human Performance Wing mission is *to advance human performance in air, space, and cyberspace through research, education, and consultation*, accomplished through synergies created by the wing's three distinct but complementary entities: the U. S. Air Force School of Aerospace Medicine, the Human Effectiveness Directorate, and the Human Performance Integration Directorate.

USAFSAM Mission:

First-call consultants in Aerospace Medicine, we find solutions to operational needs of today and tomorrow and prepare new aeromedical experts for future global challenges.

711th Human Performance Wing Mission Organizational Chart



ATC Strategy:

We will focus resources and combined efforts to enable air and space power projection by:



- ✧ Performing rapid but rigorous (“fly before buy”) in-lab analyses aligned with Joint, DoD, and AF end user requirements.
- ✧ Leading the AFMS modernization effort for discovering, modifying, assessing, validating off-the-shelf and novel technologies and procedures.
- ✧ Anticipating and responding to new realities, priorities, and warfighter threats through material solutions to fill capability gaps.

Past and Present Projects Include:

- ✧ Food and Water Assays
- ✧ Mobile Molecular Testing laboratory (MMTL)
- ✧ Electrochemiluminescence (ECL) Assays
- ✧ Polymerase Chain Reaction (PCR) Assays
- ✧ Luminex Multiplexing
- ✧ Pyrosequencer Multiplexing
- ✧ Homeland Defense-Lab Response Team (HLD-LRT)
- ✧ SENZ-IT™
- ✧ Foodborne Illness Diagnostics
- ✧ Environmental Detection of the Adenovirus-14
- ✧ Adenovirus Serotype Identification
- ✧ MesoScale Evaluation (M1M Replacement)

Core Competencies Produced From a Multi-Disciplinary Mix of Professionals:

Within USAFSAM and PHT we have a team of Scientists, Technologists, Technicians, Chemists & Toxicologists, Virologists, Microbiologists & Molecular Biologists, Health Physicists & Industrial Hygienists, Environmental, Chemical & Bioenvironmental Engineers, System & Program Managers, and Administrative Specialists.