

FACT SHEET

711TH HUMAN PERFORMANCE WING/HUMAN EFFECTIVENESS DIRECTORATE

Headquartered at Wright-Patterson Air Force Base in Ohio, the 711th Human Performance Wing's Human Effectiveness Directorate (711 HPW/RH) provides science and leading-edge technology to define human capabilities, vulnerabilities and effectiveness; train warfighters; integrate operators and weapon systems; protect Air Force personnel; and sustain aerospace operations. The directorate is the heart of human-centered science and technology for the Air Force.



Director

Mr. Jack L. Blackhurst, SES

Vision

The 711 HPW/RH's vision is to integrate biological and cognitive technologies to optimize and protect the Airman's capabilities to fly, fight and win in air, space and cyberspace.

Mission

The 711 HPW/RH's mission is to lead the Air Force in human-centered research.

Personnel and Resources

Approximately 528 government people work for the directorate, including 176 military and 352 civilian personnel. About 421 contractors also support the Directorate in a variety of positions. The Human Effectiveness Directorate operates a program worth \$109 million that focuses on four Core Technical Competencies: Forecasting, Training, Decision Making and Performance.

Organization

The men and women of the Human Effectiveness Directorate are responsible for developing the human-related technology for systems crucial to continued aerospace superiority. The staff also works to transfer the same or similar technology to civilian applications whenever appropriate. The directorate is organized into five divisions located at Wright-Patterson Air Force Base, Ohio, and Ft. Sam Houston, Texas.

Warfighter Readiness Research Division (RHA) – The division keeps warfighters ready to roll on a moment's notice with training research that provides scenarios so realistic, deployed men and women feel "like they've been there before." That is important, because there is no substitute for experience. Experts conduct the training research necessary to give our warfighters the experience of war without the risks or the costs. The branches in this division are:

- Cognitive Models and Agents (RHAC)
- Immersive Environments (RHAE)
- Mission Support (RHAM)
- Operations Support (RHAO)
- Continuous Learning (RHAS)

Warfighter Interface Division (RHC) – The division is at the heart of human effectiveness – seamlessly linking human functionality to the weaponry, information and environment of war. Warfighter Interface Division technologies help mitigate the ambiguities of war for aerospace forces. The branches in this division are:

- Battlespace Acoustics (RHCB)
- Supervisory Control Interfaces (RHCI)
- Collaborative Interfaces (RHCP)
- Battlespace Visualization (RHCV)

Directed Energy Bioeffects Division (RHD) – The division has played a key role in understanding the effects of directed energy weapons for more than 50 years, starting with atomic bomb eye protection. RHD research captures and quantifies the biological effects of directed energy weapons, so researchers can develop non-lethal weapons and the defensive means to protect our own men and woman from this type of weapon. The branches in this division are:

- Biobehavioral Systems (RHDJ)
- Mission Support (RHDM)
- Optical Radiation (RHDO)
- Radiofrequency Radiation (RHDR)
- Veterinary Sciences (RH DV)

Anticipate and Influence Behavior Division (RHX) – The division develops and researches human-centered technologies, processes and organizational strategies for cyber, Intelligence, Surveillance and Reconnaissance (ISR), and information/influence operations. Research supports Air Force warfighters by improving situational awareness and threat detection through the understanding and exploitation of human “patterns of life,” and by conducting advanced technology development to predict adversarial activities, derive courses of action, and ultimately understand, influence and defeat enemy behavior. The branches in this division are:

- Behavior Modeling (RHXB)
- Information Operations and Applied Mathematics (RHXM)
- Sensemaking and Organizational Effectiveness (RHXS)

Point of Contact

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