



Language Scientist/Engineer

Job Overview

The Sensory Systems Branch of the 711th Human Performance Wing within the Air Force Research Laboratory (711 HPW/RHWS) seeks to hire a highly qualified Language Scientist/Engineer to support the Multisensory Perception and Communication Core Research Area.

Position duties include, but are not limited to:

- Conducts research and applies theories, principles, concepts and processes to enhance our understanding of the strategies that humans use to overcome the barriers to effective communication in complex operational environments.
- Applies knowledge gained from this work to inform the development of systems that support natural human-machine communication.
- Develops, evaluates, and transitions these systems to support human-machine communication in operationally-relevant domains.
- Requires expertise in experimental design, speech/signal processing and statistical analysis, and the ability to develop software for data presentation, collection, and analysis.
- Utilizes excellent oral and written communication skills, demonstrated leadership, organizational, and team building skills and abilities for supervision and direction of experimental and engineering efforts.
- Establishes and maintains contact with researchers at other DoD and government organizations, academia, and industry in order to maintain knowledge and advance the understanding of interactive communication technologies.
- Serves as technical expert and/or committee member for special studies, projects, task forces, or professional organizations as assigned.

Required Qualifications

- United States Citizenship



- Applicants must have at least one (1) year or 52 weeks of specialized experience. Specialized experience must include professional engineering, scientific OR psychological research theory experience leading and managing human performance research and development programs to enable, enhance, sustain, and restore the health and human performance of the multi-domain Airman and Guardian; AND experience collaborating with educational and research institutions.
- For general information on qualifying education, experience, and combination of education and experience requirements which are defined based on the level of the position being filled click on the following [link](#).

Desired Qualifications

- Knowledgeable in speech/language science, linguistics, psycholinguistics, speech perception, and discourse analysis.
- Knowledgeable in communication that occurs within the context of complex operational environments (e.g., noise, time constraints, high workload, degraded communication signals) including the identification of processes employed for overcoming the barriers of effective communication and the identification of indices of communication breakdown.
- Ability to design critical experiments to address knowledge gaps, informed by an understanding of relevant literature and an acquired understanding of real-world, operational environments.
- Ability to collect and analyze data and report results to the scientific/DoD community.
- Ability to inform design of speech based displays and communication management systems and develop interfaces supporting natural human-machine communication.

Location: Wright-Patterson Air Force Base, Dayton, Ohio

Salary Range: \$79,647 – \$123,124