Title of the Project: **Auditory Detection of Aircraft in various Environmental Soundscapes**

General Field of the Project: Hearing Science (Psychoacoustics)

Faculty Mentor of the Project: Lawrence Feth, PhD, Speech & Hearing Science, feth.1@osu.edu

Project Description: The purpose of this project is to provide scientific expertise, literature reviews, and experimental results relevant to the ability of human listeners with normal hearing abilities to detect sounds produced by various aircraft in the presence of masking sounds drawn from environmental soundscapes.

Position Description: Programmer with experience in writing Matlab programs that will synthesize complex sounds to be used as signals and/or maskers in the detection experiments. A GUI framework exists for the conduct of these experiments. This person will write programs to generate sound files for use within the framework.

Target Audience: Anyone with Matlab programming experience.

Required/Desired Skills: Familiarity with analysis and synthesis of complex sounds would be desirable.

Time Commitment: 10 hrs/week. Starting ASAP, continue into summer and fall semester.

Compensation: Hourly wages

To Apply: Contact L. Feth (feth.1@osu.edu) with resume and evidence of Matlab programming experience.

Questions: Dr. Feth is available to answer these via phone or e-mail.