



**DEPARTMENT OF THE AIR FORCE
AIR FORCE RESEARCH LABORATORY
WRIGHT-PATTERSON AIR FORCE BASE OHIO**

Dear Birsen,

The Air Force Research Laboratory will again sponsor summer students and visiting faculty to join our research team as a part of the Autonomy Technology Research (ATR) Center summer program. Last summer we successfully engineered a virtual internship, and we are planning and hoping that we can have a hybrid internship next summer where the mentor and intern choose whether on-site or virtual better suits their needs. We would like to enlist your help in identifying outstanding undergraduate and graduate students who would like to be considered for these positions. I really appreciate the students that you vectored our way in the past and look forward to future collaboration. Please provide the link below to deserving students.

Both graduate and undergraduate students will work with an Air Force mentor on projects supporting the Sensors Directorate mission to process and exploit sensor data for object detection, tracking, and recognition. Project areas include:

<i>Multi-source Fusion</i> <i>Machine Learning / Deep Learning</i> <i>High Performance Computing</i> <i>Synthetic Aperture Radar: Multi-static Radar</i> <i>3D Reconstruction</i> <i>3D Ladar Imaging</i> <i>Narrow Band Imaging</i> <i>Image Registration</i> <i>Overcomplete Dictionaries</i> <i>Manifold learning</i>	<i>Compressive Sensing</i> <i>Neural Networks</i> <i>Radar Feature Analysis</i> <i>Wide Angle Signature Analysis</i> <i>Radar Target Detection</i> <i>Sparse and Low Rank Regularization</i> <i>Advanced SAR Image Formation</i> <i>Synthetic Aperture Ladar</i> <i>Target Tracking</i> <i>Pattern of Life Analysis</i>
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The ATR Center offers competitive pay, travel costs, and summer accommodations to top students. US citizenship is required. Students will work at Wright Patterson Air Force Base and nearby Wright State University. We ask that you contact [insert contact] if you have questions about the summer program or wish to recommend specific students. This link: <https://www.wright.edu/autonomy-technology-research-center> describes the program and gives the students guidance on how to apply. We hope you will pass it along to top students you feel would be a good match.

Thank you for your consideration, and we hope to hear from you soon.

Edmund Zelnio
Director, Autonomy Technology Research Center
Fellow, Air Force Research Laboratory