

ESL Researchers



Kubilay Sertel, Senior Research Associate

Ph.D., University of Michigan

Electromagnetic theory, computational electromagnetics, integral equation and hybrid methods, fast and efficient methods for large-scale electromagnetics problems; and parallel implementations of fast algorithms.



Wilhelmus Theunissen, Senior Research Associate

Ph.D., University of Pretoria, South Africa

Antenna analysis, design and measurement techniques. Shaped contour beam reconfiguration techniques for geostationary satellite reflector antennas. Wireless basestation antenna design incorporating contoured beams. Antenna and RCS measurement control software development.



Eric Walton, Senior Research Scientist

Ph.D., University of Illinois

Radio and radar signal analysis, radar target identification, and development of high resolution radar imaging techniques. Superresolution inverse synthetic aperture imaging and higher order spectral analysis and time frequency distribution interpretation of radar scattering. Compact range development and antenna design.



Jonathan Young, Senior Research Scientist

Ph.D., The Ohio State University

Ground penetrating radar research on improved antennas, airborne systems, and unexploded ordnance detection and identification. Ultra-wideband radar and antenna design. Compact range research. Transient scattering studies of higher order scattering mechanisms in target signatures and the application of image processing to extract these features.