BAE Systems is seeking a highly creative experienced Research Scientist in Burlington, MA to lead development of advanced algorithms and systems such as: robust feature extraction, multi-modality image registration, image rectification, object recognition, 3D reconstruction, object tracking, mover detection, and intelligent video monitoring, and to apply these technologies to real-world decision-making problems for situational awareness, intelligence, surveillance, reconnaissance, and tracking.   
  
You must be highly motivated, have strong superior problem-solving abilities, and be willing to perform a wide variety of related tasks.  
  
- Hands-on leadership of research, design, and development projects - Interact with program management to track progress, costs, and staffing  
  
- Supervise/mentor other researchers and software engineers  
- Collaboratively develop software products   
- Assist in transitioning cutting-edge research into test or operational systems   
  
- Lead multi-disciplinary, multi-institution teams from initial program development through the execution of ambitious multi-year projects  
- Work with leading researchers in academia, top notch software development talent at BAE, and other partners in research and development  
- Lead technical proposals  
- Publish research results in professional, peer-reviewed journals and technical conferences  
- Oversee rapid design, implementation, analysis, and evaluation of prototypes of novel solutions to challenging problems spanning the areas of computer vision, video processing, and image processing using information available in (draft) specifications or scientific literature  
  
BAE Systems provides unparalleled access to opportunities and resources to bring computer vision ideas to prototypes, and to bring prototypes to operational success. The successful candidate will develop and maintain collaborative relationships across the organization with theoreticians, phenomenologists, research engineers, software developers, and a wide range of innovators.

Required Skills:

- Doctorate in Computer Science or Engineering-related discipline with 5+ years professional experience (specialization in Computer Vision or Video Processing particularly valuable); Master’s degree with 8+ years professional experience; Bachelor’s Degree with 10+ years’ experience   
- Strong analytic and project and personnel leadership skills   
- Strong writing and presentation skills sufficient to support:   
    (a) creation and sustainment of lines of research through marketing via direct interaction with customers and proposal writing; and   
    (b) publication of research results in professional, peer-reviewed journals and technical conferences   
- Supervision/leadership/mentorship of junior staff   
- Demonstrated experience in formulating and carrying out research agendas   
- Matlab and/or C++ proficiency to perform: (1) rapid design, prototyping, analysis, and simulation of, and experimentation with, advanced algorithms and applications; and (2) data analysis   
- Equally effective communication with lifelong academics, government customers, and professional engineers   
- Record of publications in relevant fields with real-world applications viewed favorably   
\*US CITIZENSHIP or RESIDENCY IS REQUIRED

Preferred Skills:

- Security clearance (ideally currently active)   
- Experience in defense or intelligence industries highly desirable   
- Software engineering skills, including the ability to architect reusable C++ frameworks   
- Strong skills in sensor modeling, calibration, pattern classification, and projective geometry basic concepts highly desirable.

To apply for this position, please visit our website at [www.baesystems.jobs](http://www.baesystems.jobs) and enter in job opening 382250.

To see examples of some of our projects and a listing of related jobs, visit our Technology Solutions landing page at <http://www.eis.na.baesystems.com/technology-solutions/index.htm>.