

Post-Doctoral Research Associate in Sensor Integration
Satellite Positioning and Inertial Navigation (SPIN) Laboratory
The Ohio State University

Description: Successful applicant will develop methods and implement algorithms for kinematic GPS, inertial navigation, and integration of GPS with inertial navigation system (INS) and other auxiliary navigation and ranging sensors; experience in terrestrial LiDAR data reduction and analysis is desired. In addition, a successful candidate will assist with advising graduate students in GPS, GPS/INS algorithmic and data reduction work, including kinematic GPS methods and ambiguity resolution. Finally, researcher will participate in setting research goals and will assist in proposal writing in related research areas, and writing reports and manuscripts.

50%

Develop, implement and test high-accuracy integrated GPS/INS/auxiliary sensor Kalman filter with a special emphasis on the confined environment applications, where GPS signals can be jammed or masked.

25%

Assist in development of research goals and plans; assist in research proposal preparation, and algorithmic experimentation; write progress reports and manuscripts for publication.

25%

Assist in advising graduate students on project; prepare and present research seminars for graduate students.

Education/Qualifications

PhD in Electrical Engineering, Geomatics, Geodetic Science or equivalent; proven record of research in GPS/INS integration, proficiency in robust estimation techniques, strong programming skills: proficiency in Matlab, C++ and Java

Compensation: 40K/year + benefits

Duration: 2 years + optional 1 year

Start date: April 1, 2007

Please submit a current CV and a statement of research to Prof. Dorota Brzezinska (dbrzezinska@osu.edu)

Position will be open until a qualified candidate is found.

January 2, 2007