

# Postdoctoral Position on Quantum Computing and Optimization

Quantum Computing and Optimization Laboratory,  
Industrial and Systems Engineering Department,  
Lehigh University,  
Bethlehem, PA, USA

Applications are invited for a postdoctoral position at the Quantum Computing and Optimization Laboratory (QCOL), Industrial and Systems Engineering (ISE) Department, Lehigh University (<http://coral.ie.lehigh.edu/~QCOL>), as part of a recently awarded \$2.1 million DARPA grant (<https://engineering.lehigh.edu/news/article/21m-darpa-grant-puts-ise-faculty-vanguard-quantum-computing>) for research in optimization with Noisy Intermediate-Scale Quantum (NISQ) devices. We seek outstanding candidates with a Ph.D. in operations research, physics, computer science, applied mathematics, or related areas with research experience in the general area of Quantum Computing (QC). In addition, demonstrated proficiency in verbal and written communication skills and the ability to work in a collaborative, multidisciplinary team are required.

Some of the research directions that the QCOL is pursuing are related, but not limited to: the development of new QC results/techniques to address the solution of combinatorial optimization problems with NISQ devices, the development of new QC interior point algorithms, and the study and control of noise in NISQ devices. Through strong collaborations, QCOL has access to state-of-the-art QC hardware and software.

Compensation will be commensurate with experience, and the position is for one (1) year with the possibility of extension to a second year. **Interested applicants should submit a cover letter, curriculum vitae, a brief statement of research accomplishments and contact information for at least three references to Prof. Tamás Terlaky <terlaky@lehigh.edu>.**

Review of applications will begin immediately and will continue until the position is filled.

Questions concerning the position can be directed to Prof. Tamás Terlaky, ISE Department at <terlaky@lehigh.edu>.

Among the nation's premier research universities, Lehigh University is the academic home of 7,000 undergraduate and graduate students and 475 tenure line faculty. Lehigh is located on a scenic, 1,600-acre campus in historic Bethlehem in eastern Pennsylvania, about one and one-half hours from New York and Philadelphia. The Lehigh Valley is an attractive place to live and work with reasonable cost of living, easy commuting, and abundant cultural activities.

Lehigh University is an affirmative action/equal opportunity employer. Please check <https://www.lehigh.edu/~policy/university/eo.htm> for details.