Summer Internships: Quantitative Bioscience & Biomedical Engineering

Oregon Health & Science University
http://www.ohsu.edu/qbb

Oregon Health & Science University
School of Medicine, L224 (BMB)
3181 Sam Jackson Park Road

QBB Faculty
Eric Barklis: EM, Viral replication / assembly
Peter Barr-Gillespie: Hair cell mechanotrans.
Isabelle Baconguis: Electron microsc. channels
Kimberly Beatty: Molecular imaging chem.
Michael Chapman: EM-imaging, viral entry
James Chen: High resolution electron microsc.
Michael Cohen: Chemistry of signaling
Emek Demir: Comp. pathway analysis
Kyle Ellrott: Computational cancer biology
Sadik Esener: Photonics, opto-electronics
David Farrens: G-protein structure
Catherine Galbraith: Fluorescence microsc.
James Galbraith: Fluorescence microscopy
Summer Gibbs: Fluorescence imaging
Andras Gruber: Thrombus modeling
Eric Gouaux: Synapse receptor structure
Joe Gray: Cancer genomics / imaging
Monica Hinds: Vascular tissue engineering
Steven Jackques: Diagnostic & therap. optics
Chris Kroenke: Magnetic resonance imaging
Adam Margolin: Genomics of disease
Owen McCarty: Cardiovasc. fluid dynamics
Xiaolin Nan: Super-resolution microscopy
Bill Rooney: Magnetic resonance imaging
Sandra Rugonyi: Cardiovascular modeling
Carsten Schutz: Chemical Biology
Paul Spellman: Cancer genomes
Show-Ling Shyng: K-ATP channels
Kemal Sonmez: Computational genomics
Francis Valiyaveetil: Ion channel selectivity
Tania Vu: Quantum dot bio-imaging
Wassana Yantasee: Nanoparticle therapies
Matt Whorton: Electron microscop. channels
Zheng Xiao: Comp. cancer immunology
Xiangshu Xiao: Cancer therapeutic devel.

Quantitative Bioscience & Biomedical Engineering (QBB)

Opportunities to apply physics, math and computer science in medical practice and biomedical research are growing exponentially with the development of new diagnostic, treatment and research technology. Majors in physics, engineering, chemistry, mathematics and computer science who will be college sophomores, juniors or seniors are especially encouraged to apply—to experience the excitement of research at this interface, and to decide whether this is an attractive career path.

From June 26 - August 28, students will experience mentored research in groups studying cancer or nerve transmission, developing new applications of laser optics, electron microscopy, or computational genomics. A modest stipend will be provided.

Applications should include a CV, academic transcript and a list of three QBB faculty with not more than 50 words each, explaining the applicant’s interest in the faculty member’s research. Applications and 2 reference letters from faculty members should each be e-mailed to Ms. Sam Wagner (qbbintern@ohsu.edu) by 5pm March 15, 2017, stating in the subject line “Intern: <applicant-name>”.

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