



VirginiaTech

College of Engineering
National Capital Region

Bradley Department of Electrical & Computer Engineering
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The Computational Bioinformatics and Bio-imaging Laboratory (CBIL) of the **Bradley Department of Electrical and Computer Engineering** at Virginia Tech (Virginia Polytechnic Institute and State University) currently has several new openings for **doctoral graduate research assistantships (GRAs)**.

The CBIL is **strategically located** at one of the three largest **biomedical research clusters** in the US (Metropolitan Washington, DC). We have established **active collaborations** with Johns Hopkins Medical Institutions, Georgetown University Medical Center, Children's National Medical Center, Wake Forest University School of Medicine, and the National Institutes of Health. The electrical/electronic engineering graduate program at Virginia Tech is currently ranked the **top 18th** in the US.

We are seeking **highly qualified** and **motivated** candidates who is interested in **truly scientific research career** (extending math and engineering into life sciences) and inspired by his/she own **curiosity** about the **process of discovery**, enjoy and appreciate the opportunity to learn new things, to ask new questions, and to pursue new discoveries. Our research is focused on the frontiers in: (1) statistical modeling and signal/pattern analysis of genome-wide high throughput genomic data (SNPs, gene copy number changes, genomic indels, gene expressions, epigenetic elements); (2) modeling, simulation, and inference of biological pathway networks; and (3) modeling and analysis of the interplays between genomic variations and biological networks.

Candidates **must** have B.S. and M.S. degrees in electrical/electronic engineering or closely related areas, e.g., applied mathematics, systems and automation, biomedical engineering. Applicants should have solid background and/or experience in the areas (some but not necessarily all) of: (1) statistical signal processing; (2) statistical machine learning; (3) pattern recognition, (4) image processing/analysis; or (5) computational intelligence.

Please send resume, publications/thesis abstract, transcripts, statement of research interest, and the names and contact information of at least two references to Dr. Jason Xuan at xuan@vt.edu, or Dr. Joseph Wang at yuewang@vt.edu.

More information about CBIL at <http://www.cbil.ece.vt.edu> and the Department can be found at <http://www.ece.vt.edu>

Invent the Future



GEORGETOWN UNIVERSITY MEDICAL CENTER

LOMBARDI COMPREHENSIVE CANCER CENTER

Research • Education • Treatment

The Lombardi Comprehensive Cancer Center at **Georgetown University Medical Center**, Washington, DC, **jointly with** the Bradley Department of Electrical and Computer Engineering at **Virginia Polytechnic Institute and State University (Virginia Tech)**, has at least **one** open **doctoral graduate research assistantship**.

We are seeking highly qualified and motivated candidates with B.S. **and** M.S. degrees in Electrical Engineering, Bioinformatics, Computer Science, or related field and relevant experience in signal processing and high dimensional data analysis. Other preferred skills include programming in MATLAB and working knowledge of statistical machine learning methods.

Candidates should formally apply for admission to **the PhD Program of the Bradley Department of Electrical and Computer Engineering at Virginia Tech**. Successful candidates will be enrolled as PhD students at Virginia Tech, work as a Graduate Research Assistant at the Lombardi Comprehensive Cancer Center, and co-supervised by Dr. Habtom Resson of Georgetown University and Dr. Joseph Wang of Virginia Tech.

Applicants should send their CVs and the names, phone numbers, and e-mail addresses of three references to Dr. Yue Wang at yuewang@vt.edu and Dr. Habtom Resson at hwr@georgetown.edu. Applicants are encouraged to send preprints of their publications (if any) and their statement of research interests.

Information on the Computational Bioinformatics and Bio-imaging Laboratory (CBIL) at Virginia Tech, led by Dr. Joseph Wang can be found at <http://www.cbil.ece.vt.edu>

Information on the Resson Lab at the Lombardi Comprehensive Cancer Center can be found at <http://microarray.georgetown.edu/ressomlab>

