

DOCTORAL PROGRAM IN MATHEMATICAL SCIENCES

Ph.D. Tracks: Applied Mathematics; Applied Probability & Statistics

The Department of Mathematical Sciences at the New Jersey Institute of Technology has open positions for Doctoral study with a research focus in mathematical modeling, applied analysis, scientific computing, and probability and statistics.

Fluid Dynamics & Materials Science

Interfacial flows, multiscale and reactive flows, biological fluid dynamics, granular materials, pattern formation, self-assembly

Mathematical Biology

Computational neuroscience, neuronal oscillations and brain rhythms, circadian rhythms, cell calcium signaling, embryogenesis, dynamical systems approaches

Wave Propagation

Electromagnetics, nonlinear optics, inverse problems, front propagation, underwater acoustics and ocean waves

Scientific Computing

Fast algorithms, boundary integral methods, domain decomposition method, finite element methods, stochastic simulation, high-performance computing

Applied Probability and Statistics

High-dimensional data, survival analysis, reliability models, risk assessment, spatial statistics, signal processing

Biostatistics

Multivariate methods, statistical methods in clinical trials, microarray and proteomics data analysis, semi-parametric models

Teaching and research assistantships are available, and include a tuition waiver and a competitive stipend

For more information,
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