Henry M. Rowan College of Engineering and Department of Electrical and Computer Engineering are pleased to announce new Ph.D. fellowships in artificial intelligence (AI) and machine learning (ML), supported by the US Dept. of Education's Graduate Assistance in Areas of National Need (GAANN) program. We invite qualified students to apply to become GAANN Fellows.

**Generous Funding**
- $34K/year stipend
- Full tuition + fee waiver
- Travel support & allowance to cover professional expenses

**Program Highlights - Professional Training**
- Conduct cutting-edge AI/ML research in a flexible Ph.D. program that provides you with both fundamental and applied training
- Diverse field of applications to choose from: energy to virtual and augmented reality, cybersecurity to cheminformatics, aviation to biometrics, robotics to radiomics to big data analytics and beyond
- Over 150 courses to choose from across several departments and colleges
- Dedicated, award winning faculty with expertise in a wide spectrum of AI / ML and related fields
- Complete professional preparation, not just in technical areas, but also critical skills of public speaking, entrepreneurial thinking, strategic technical writing for publications and grant proposals.

**Eligibility & Application**
- US citizens, nationals, permanent residents
- B.S. or M.S. in engineering or a related discipline
- Send CV and cover letter describing your background and research interests to prepare.ai.gaann@rowan.edu.

**About Rowan and Location**
Rowan University is a comprehensive, public research university with over 19,000 students. Rowan is located in Glassboro, NJ, which affords all the conveniences of a quintessential college town. For big city amenities, downtown Philadelphia is only 20 minutes away.
ECE 09.504: Special Topics in Electrical and Computer Eng.
ECE 09.509: Virtual Reality Systems
ECE 09.521: Fundamentals in Systems Engineering
ECE 09.523: Advanced Radar Systems
ECE 09.524: Advanced War Gaming and C4ISR
ECE 09.525: Advanced Command and Control
ECE 09.526: Advanced Weapon Systems
ECE 09.531: Advanced Optical Fiber Communications
ECE 09.551: Digital Signal Processing
ECE 09.552: Digital Image Processing
ECE 09.553: Digital Speech Processing
ECE 09.554: Theory and Engineering Application of Wavelets
ECE 09.555: Advanced Topics in Pattern Recognition / Machine Learning
ECE 09.556: Advanced Embedded Software Design
ECE 09.560: Artificial Neural Networks
ECE 09.566: Advanced Topics in Systems, Devices and Algorithms in Bioinformatics
ECE 09.568: Discrete Event Systems
ECE 09.569: System-on-Chip Verification
ECE 09.571: Instrumentation
ECE 09.572: Advanced Smart Grid
ECE 09.573: Advanced Smart Sensors
ECE 09.582: Memristors and Nanoelectronic VLSI
ECE 09.585: Advanced Engineering Cyber Security
ECE 09.586: Adv. Portable Platform Development
ECE 09.590: Adv. Emerging Topics in Computer Engineering ♦
ECE 09.595: Adv. Emerging Topics in Comp. Intelligence & Machine Learning (Deep Learning) ♦
ECE 09.651: Estimation and Detection Theory
ECE 09.655: Advanced Computational Intelligence and Machine Learning
ECE 09.704: Special Topics for Doctoral Students ♦
ENGR 01.510: Finite Element Analysis
ENGR 01.511: Engineering Optimization
ENGR 01.598/599: Graduate Research / Master’s Thesis Research
ENGR 01.600: ToughTalk: Graduate Seminar
ENGR 01.701: Effective Teaching in Academic, Corporate, and Government Settings
ENGR 01.702: Strategic Technical Writing and Winning Grant Proposals
ENGR 01.799: Doctoral Research and Dissertation
Coming soon: Internet of Things

Not all classes are offered every year, whereas additional classes are taught every semester as special and emerging topics (indicated with ♦), whose content are drawn from new, emerging, contemporary topics. Appropriate graduate courses from other departments, such as Mathematics, Computer Science, Physics as well as other Engineering Departments are also available and may be taken in consultation with your advisor. Please contact us if you have questions about a specific class or program of study.

Rowan University: [www.rowan.edu](http://www.rowan.edu), Electrical & Computer Engineering: [www.rowan.edu/ece](http://www.rowan.edu/ece)
Dr. Nidhal Bouaynaya, Grad. Coordinator—bouaynaya@rowan.edu, Dr. Robi Polikar, Dept. Head – polikar@rowan.edu