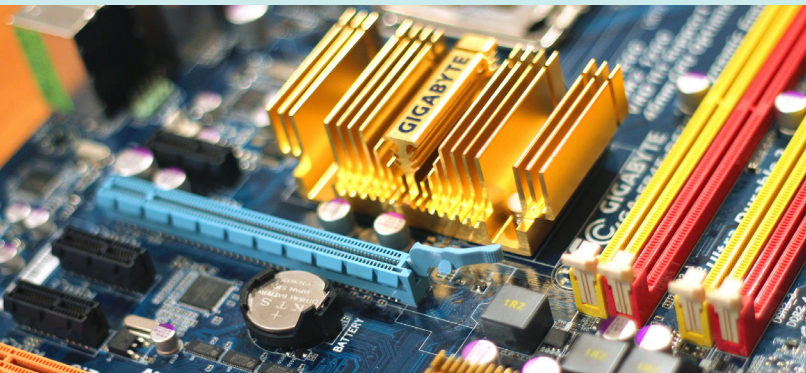




THE PULSE

JUNE 2020 | VOL. 67, NO. 6

OF LONG ISLAND



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Nominations are now open! The IEEE Long Island Section is still attempting some form of normalcy by formally starting the procedure to elect the next slate of Executive Committee officers. I have asked Lou D'Onofrio to chair the nominating committee, who will vet the slate of candidates that wish to run. Self-nominations are acceptable and there is no particular experience required for the offices. See the

notice from Lou on the committee and its members on [page 6](#).

This month sees us still in the grip of a life-changing set of events. Although New York is showing signs of diminishing infections and the urge to get back to a weekly work schedule is strong, there may be a sea change coming for employees and employers. For engineers, the situation is complex. One hardly imagines building, testing and documenting complex electro-mechanical systems by working remotely. A car or a plane can not be made that way. However, CAD software frees many engineering tasks from the office. [Onshape](#), for example, is useful as a collaborative suite of mechanical design tools that started as an alternative to programs like Solidworks. It is not hard to imagine designing a complex system in solitude, given enough time. There are similar electrical engineering CAD systems that take designs from schematic to printed circuit in a single set of tools. However, the missing element in development among all the tools available is person-to-person collaboration. Even editing a document with other online contributors takes some practice. It is not as easy going to the conference room and editing with others in person.

One can imagine an engineering company of the future with minimal staff and a remote team of engineers. This concept already has a history among integrated circuit manufacturers who run "fabless" companies. The designs are intellectual property that get sent to foundries that may be in Thailand or Switzerland or Hong Kong. The future may see teams of engineers working remote from each other and in no specific location. Let us be prepared for the new wave of engineers who can adapt to this type of work or who will grow up knowing no other. Just have a bit of sympathy for the poor engineer who makes the printed circuit bigger than its enclosure and has to endure the product manager's (online) wrath.

As a final thought, the **IEEE** has provided [resources to deal with the Covid-19 pandemic](#). It is an admirable effort, and I propose that the Section start to respond with any resources it can bring to bear on dealing with the pandemic. To that end, I would ask for a set of volunteers to come forward with proposals on how engineering talents may ameliorate or eliminate this type of threat. I would like to structure the group to work with health professionals and hospital engineering staff to develop solutions that stand up to the tests of time and medicine. No home-brew ventilators, please! I will be sending out a notice on forming such a group in the next few weeks. As a reminder, [The IEEE LI Section Annual Awards Ceremony](#) will be held September 25, 2020. See announcement on [page 5](#).

Regards,

Arnold Stillman
IEEE Long Island Section Chair, 2020

THE PULSE OF LONG ISLAND



The Pulse of Long Island is produced by the Long Island Section of the Institute of Electrical & Electronic Engineers. It is published monthly except during July & August.

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THE IEEE LONG ISLAND SECTION WEBSITE

The IEEE LI Section website is regularly updated to reflect recent section activity and upcoming events. Each Society and Affinity Group has a dedicated page that describes their function and includes contact information.

www.licn.org

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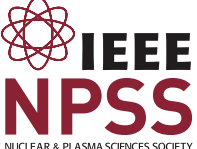

The Consultant's Network of Long Island maintains a referral service of engineering, computer, managerial and technical professionals.

membership@ieee.li

MEMBERSHIP DEVELOPMENT

For more information on membership with the LI Section of the IEEE, e-mail Carl Meshenberg at: membership@ieee.li

IEEE LI SECTION SOCIETIES and CHAPTER OFFICERS

 <p>AEROSPACE & ELECTRONIC SYSTEMS SOCIETY (AES) Chair: Dave Mesecher Vice Chair: Vacant Email: aes@ieee.li</p>	 <p>ANTENNAS AND PROPAGATION SOCIETY (APS) Chair: Bryan Tropper Vice Chair: Sai Padmanabhan Email: ap@ieee.li</p>	 <p>CIRCUITS AND SYSTEMS SOCIETY (CAS) Chair: James Colotti Vice Chair: Supriya Karmakar Email: cas@ieee.li</p>	 <p>COMMUNICATIONS SOCIETY (COMSOC) Chair: Howard Hausman Vice Chair: Tony Bowden Email: communications@ieee.li</p>
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 <p>MICROWAVE THEORY AND TECHNIQUES SOCIETY (MTT) Chair: Saikumar Padmanabhan Vice Chair: Eric Darvin Email: mtt@ieee.li</p>	 <p>NUCLEAR AND PLASMA SCIENCES SOCIETY (NPS) Chair: Shaorui Li Vice Chair: Graham Smith Email: nps@ieee.li</p>	 <p>PHOTONICS SOCIETY (IPS) Chair: Adam A. Filos Vice Chair: M. Nazrul Islam Email: photonics@ieee.li</p>	 <p>POWER & ENERGY/INDUSTRY APPLICATIONS SOCIETY (PES & IAS) Chair: Marjaneh Issapour Vice Chair: Lou D'Onofrio Email: power@ieee.li</p>
 <p>POWER ELECTRONICS SOCIETY (PELS) Chair: Ronald DeLuca Vice Chair: Predrag Hadzibabic Email: pels@ieee.li</p>	 <p>PRODUCT SAFETY ENGINEERING SOCIETY (PSES) Chair: Tom Lanzisero Vice Chair: Vacant Email: safety@ieee.li</p>	 <p>SIGNAL PROCESSING SOCIETY (SPS) Chair: Jessica Donaldson Vice Chair: Dave Mesecher Email: signal@ieee.li</p>	 <p>SOCIAL IMPLICATIONS OF TECHNOLOGY SOCIETY (SSIT) Chair: Howard Edelman Vice Chair: John Vodopia Email: social@ieee.li</p>
<p>The Long Island Section of IEEE has 18 Chapters. Each Chapter is a technical subunit of the Long Island Section, associated with an IEEE Society. The Chapters, as well as the Section, are always welcoming volunteers. If you would like to help with any of the Long Island Chapter's steering groups, please do contact the relevant Chapter Chair, Vice Chair, or one of the Section officers.</p>		 <p>SYSTEMS COUNCIL (SYSC) Chair: Stephanie White Vice Chair: Vacant Email: systems@ieee.li</p>	 <p>TECHNOLOGY & ENGINEERING MANAGEMENT SOCIETY (TEMS) Chair: Brian Quinn Vice Chair: Barbara Porter Email: tmc@ieee.li</p>

THE LONG ISLAND SECTION OF THE INSTITUTE
OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.

2020 ANNUAL AWARDS CEREMONY

Presentation and Dinner

WHEN:

**Wednesday,
September 23, 2020**

WHERE:

**Crest Hollow
Country Club,
8235 Jericho Tpke,
Woodbury, NY**

TIME:

5:30 pm

Arnold Stillman
Chair, IEEE LI Section



Information on registering for the banquet, and sponsorship opportunities will be communicated in the near future



CALL FOR NOMINATIONS 2021

IEEE LONG ISLAND SECTION OFFICERS

LOU D'ONOFRIO
Chair, Nominating Committee



The vitality of the Long Island Section depends on dedicated Officer and ExCom leadership. Although the year is not yet half over, plans for identifying candidates for **2021 Section Officers** has begun. At the May 18th ExCom meeting, Arnold Stillman announced the appointment of Lou D'Onofrio, Marjaneh Issapour, and Barbara Porter to the Nominating Committee. Lou will Chair the Committee.

The Nominating Committee is starting the process of identifying candidates who would like to be considered for 2021 Long Island Section Officer positions. The positions are Section Chair; Vice Chair; Treasurer; and Secretary. You may self-nominate by sending an email to the Nominating Committee at ldonofrio@ieee.org, by **June 30th**. All Long Island Section members are eligible regardless of prior experience. Becoming a Section Officer is a good way to gain valuable leadership experience. According to the Long Island Section Operations Manual, the term of each of the Officers is one year.

If you have any questions regarding the responsibilities of any of the Officer positions, or would like additional information, you may email me at ldonofrio@ieee.org. We expect to announce the preliminary slate of 2021 LI Section Officer candidates at the July ExCom meeting.

The MGA Training Committee is pleased to announce the launch of the **2020 Volunteer Leadership Training (VoLT) Program**. The **VoLT Program** invites growing volunteers who have a desire to continue growing as IEEE volunteers and lead their local units to complete the program's prerequisite courses, and apply for the program when the application opens in June.

PREREQUISITE COURSES AND OTHER REQUIREMENTS

To be considered for the program, candidates are required to complete the 8 prerequisite courses that cover the core organizational units of IEEE and provide foundational knowledge of the organization. Log into the **IEEE Center for Leadership Excellence (CLE)** to [access the courses](#). For complete application requirements, see our [Application Checklist](#).

To date, over 300 volunteers representing all 10 IEEE Regions, and over 100 Sections, have graduated from the **VoLT Program**. As a testament to its success, graduates are taking positions of leadership with their local operational units and at the Region level.

APPLICATION & KEY DATES

The application for the 2020 class will open **June 1st, 2020**. Volunteers who complete the prerequisite courses between now and May 31st, 2020 will receive an email invitation to apply. The link to the application will also be posted on the [website](#).

The application deadline is **July 17th, 2020**. In addition to their applications, candidates must have completed the 8 prerequisite courses & submitted their endorsements by this date in order to be considered for a seat in this year's program.

Candidates will be notified of their application status in August 2020. The program starts September and ends early December. During the program, participants will attend weekly virtual webinars focused on leadership topics.

Participants will have a mentor, & work on a project with their assigned teams. For more information about the program, please visit [our new home](#) in the CLE. Please share this announcement with anyone who may be interested in the program.

Thank you,

Rubén Barrera-Michel
2020 MGA Training Committee Chair



2020 VOLUNTEER LEADERSHIP TRAINING PROGRAM

CALL FOR PARTICIPATION

LOU D'ONOFRIO

LET YOUR VOICE BE HEARD

WRITE TO THE PULSE

The Pulse of Long Island is a newsletter for the members of the IEEE Long Island Section. You can let your voice heard by writing to the Editor. How to bring more value to our members? Interesting new technology, or a project? An issue of interest to members of the IEEE Long Island, Long Island engineers and computer professionals, or Long Island technical community at large? Write to the **Pulse**. Let your letter be read, and your voice heard.

HOW CAN I CONTRIBUTE TO THE PULSE?

Send your letters or articles via email to pulse@ieee.li. If selected for publication, the letter or article will be edited before being published.



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Please contact us at pulse@ieee.li for advertising rates.



CONTRIBUTION DEADLINE:

20th of a month for the next month edition.

CONTRIBUTIONS FROM LONG ISLAND TECHNICAL & ENGINEERING COMPANIES:

Publish your technology-related press release (up to one page) at no cost. Please send the press release as a PDF file attached to email to pulse@ieee.li, addressed to the Editor, with a Subject line "Pulse -PR" followed by your company name, and the responsible contact person's name, email and phone number in the email body.



THE PULSE OF LONG ISLAND

CONTRIBUTE TO THE PULSE - LET YOUR LETTER BE READ and LET YOUR YOUR VOICE BE HEARD



16TH Annual IEEE Long Island Systems, Applications & Technology Conference

LISAT 2020

Unfortunately, we have been informed that Farmingdale State College, the site of our 2020 (Long Island Systems, Applications and Technology) LISAT Conference, is canceling all external events through the Spring 2020 Semester. Consequently, **we have cancelled our 2020 LISAT Conference**, which was scheduled for May 1st. We deeply regret these circumstances and hope that the coronavirus pandemic will begin to decrease in the near future. **We look forward to next year's LISAT 2021 Conference.**

In these turbulent times LISAT has agreed to continue to fund \$2500 for ten (10) 2020 Student Scholarships which are once again being matched by the Farmingdale Foundation.

LOOKING FOR AN UPDATE ON SECTION EVENTS?

FOR UPDATES ON ALL LONG ISLAND SECTION EVENTS, CHECK OUT THE IEEE LONG ISLAND SECTION WEBSITE:

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**Working on an interesting project? Or have an interesting topic to talk about?
A startup ready to spread a word, or in need of beta testers with computer knowledge?**

Computer Society Chapter invites you to present your project or your experience. For one of the upcoming meetings, we'd like to mash technical and social, and have several presenters presenting interesting computer-related topics in a shorter timeframe, fostering conversation. This is an opportunity to meet each other, learn about our work and possibly identify opportunities for collaboration.

Contact IEEE Computer Society Chapter at computer@ieee.li with your suggested topic.



IEEE





ILC 2020

IEEE WOMEN IN ENGINEERING
INTERNATIONAL LEADERSHIP CONFERENCE

IEEE WOMEN IN ENGINEERING AFFINITY GROUP INTERNATIONAL LEADERSHIP CONFERENCE



WELCOME TO THE IEEE WIE ILC 2020 VIRTUAL SERIES!

The **IEEE WIE INTERNATIONAL LEADERSHIP CONFERENCE Virtual Series** will take place throughout **June 2020**, offering 1-hour sessions, live panel discussions, virtual networking opportunities, and an on-demand library for you to browse when it's convenient for you, which can be found below.

The current circumstances have led to more challenges, both professionally and personally, for the women in tech community, and strong leadership is needed now more than ever. As a result, we've updated the theme of the Virtual Series to "*Leading through Change*". Our speakers have adapted their content to make sure it's relevant and worth you taking the time out of your already hectic schedules.

Plus, the **IEEE WIE ILC Virtual Series** is **free to attend!** Registration is now open and we encourage you to sign up early and share with anyone you think can benefit from attending.

The link for further information and to register is
<http://ieee-wie-ilc.org/virtual2020/>



THURSDAY, NOVEMBER 5, 2020 • RADISSON HOTEL, 110 MOTOR PARKWAY, HAUPPAUGE LI • NOON TO 8 PM

IEEE LI SECTION **POWER ELECTRONICS SYMPOSIUM 2020**

All professionals (engineers, managers, etc.) involved in the use, design, qualification, test or manufacture of power supplies, power converters, power management, servos or energy storage are invited. All sectors of power electronics are represented including military, industrial, medical, space, consumer and automotive.

CALL FOR PAPERS

Abstract, viewgraphs, speaker bio and speaker contact information are due **October 9, 2020**. Scheduling of qualified papers is accomplished on a first-come/first-served basis. Notification of acceptance by **October 16, 2020**.

www.ieee.li/pes



FREE GENERAL ATTENDANCE

REGISTRATION OPENS APRIL 2020

A free invitation is extended to all Engineers, Managers, other Professionals and Students involved in the use, design, qualification, test or manufacture of power supplies, power converters, power management or energy storage. Registered attendees will receive complimentary networking lunch, admission to the exhibit floor, technical lectures, and a complimentary networking dinner.



EXHIBITORS

REGISTRATION OPENS APRIL 2020

Limited exhibitor space is available to LI companies & reps that cover LI involved in the design, qualification, test or manufacture of power supplies, power converters, power management or energy storage. Tables are 2.5' x 8' and are provided with two chairs. All exhibitors are invited to provide business cards and giveaways for the swag bags. Exhibitors are also invited to enjoy the complimentary networking lunch and the complimentary networking dinner. Exhibitor tables are offered at \$400.



SPONSORS

REGISTRATION OPENS APRIL 2020

A sponsorship entitles you to one free table with preferential placement. In addition, your company logo is prominently placed on the 200 swag bags, symposium flyer, and on all event posters. As a sponsor, you are also entitled to have up to two business cards and two items placed in the event swag bags. The number of sponsorship opportunities is limited to five and are available on a first-come, first-served basis. Sponsorships are offered at \$1000.

FOR MORE INFORMATION, GENERAL REGISTRATION, EXHIBITOR REGISTRATION, SPONSOR REGISTRATION AND CALL FOR PAPERS: www.ieee.li/pes

IEEE MEMBERSHIP and MEMBER BENEFITS

IEEE membership offers access to technical innovation, cutting-edge information, networking opportunities, and exclusive member benefits. Members support IEEE's mission to advance technology for humanity and the profession, while memberships build a platform to introduce careers in technology to students around the world.



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As an IEEE member, you'll be presented with new resources, valuable opportunities, and many discounts that will help you advance your career in the right direction. You can find colleagues who share your vision and commitment—those who are moving technology forward today.



ENHANCE YOUR MEMBERSHIP—JOIN AN IEEE SOCIETY

IEEE Societies provide members with opportunities to connect with experts and network with colleagues locally and abroad—all while staying up-to-date on technology and trends in their industry.



GIFT OF MEMBERSHIP

IEEE membership delivers access to the industry's most essential technical information and provides networking opportunities both locally and globally. Members have the ability to stay current in their chosen profession, connect with peers, and invest in their future.



MEMBER-GET-A-MEMBER

Consider sharing your IEEE membership experience and get rewarded for doing so. Through the Member-Get-a-Member (MGM) program, IEEE rewards your efforts in recruiting new members. Your local IEEE Section can also benefit.



IEEE.tv

Made possible by IEEE members, IEEE.tv is an award-winning, Internet-based television network, producing special-interest programming about technology and engineering for IEEE members and the general public.

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- Get involved in standards development
- Network with other professionals in your local area or within a specific technical interest
- Mentor the next generation of engineers and technologists and so much more.

IEEE members can access information on local events and activities by signing in to myIEEE, the members' personalized gateway to IEEE membership. In addition, members can also:

- Access individual Society memberships and subscriptions
 - Connect with local IEEE Sections and volunteer leadership
 - Find upcoming conferences
- Learn more about individual benefits
- Read the latest news from IEEE, IEEE Spectrum, IEEE Standards News, and The Institute

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IEEE SENIOR MEMBER



Being elevated to senior member recognizes people who have moved beyond entry-level work in their careers. It also encourages them to engage more broadly with engineers and other technical professionals in companies and universities outside their own. To be eligible for senior member status, members must have worked in a professional capacity in a technical field for at least 10 years. Educational experience is partially credited toward that time. Nominees must also have professional references from three IEEE senior members, Fellows, or honorary members. If you're interested in elevation, you don't have to wait to be nominated—you can nominate yourself.

>> APPLY FOR SENIOR MEMBER GRADE

IEEE LIFE MEMBERS, WRITE FOR THE PULSE!



The Section is inviting you to record your stories and histories in our monthly publication, the *Long Island Pulse*. An article of approximately 300 – 350 words is recommended.

LET US HEAR FROM YOU.

Send your article to: pulse@ieee.li
Life Member Chair: life@ieee.li

The **IEEE Long Island Section** has held meetings with many of our Life Members and Senior Engineers, in recent months. Your stories and histories in engineering are interesting, inspiring and should be recorded for future generations. You have served your profession for many years, many have served our country in the military, many as engineers fighting the Cold War. The many contributions are the legacy to this new digital age, space age, environmental age and beyond.

WANTED: IEEE LIFE MEMBER NEEDED TO VOLUNTEER TO SUBMIT A MONTHLY HISTORY ARTICLE FOR THE PULSE

The **PULSE** is seeking a IEEE LI Life Member to write the *Long Island Electrical & Electronic History* monthly article for the **Pulse**. If interested contact pulse@ieee.li

WE WANT YOUR STORIES



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is a nonprofit professional organization affiliated with the Institute of Electrical and Electronics Engineers. Our members include dozens of electrical, electronic, mechanical and software engineers with expertise in over 65 categories of technology and business. All are members of the IEEE and adhere to the IEEE professional codes of ethics.

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FARMINGDALE STATE COLLEGE SECURITY SYSTEMS AND LAW ENFORCEMENT TECHNOLOGY

ASSISTANT PROFESSOR (2 Postions)

JOB DESCRIPTION:

The Department of Security Systems and Law Enforcement Technology at Farmingdale State College (SUNY) invites applications for two tenure-track positions at the rank of Assistant Professor beginning in the Fall of 2020. The successful candidate will teach a variety of undergraduate courses in Computer Security and Software Technology, including information security, cryptography, cyber security, computer forensics, database security, physical security, artificial intelligence, software development, and machine learning. Other responsibilities include student advisement and curriculum development. Candidates must engage in grant development work and research leading to publications in refereed academic journals. All faculty members at Farmingdale State College have three workload components: teaching, research and scholarly activity, and service. The successful candidate will demonstrate an interest and high level of competence in teaching. Candidates should have a research agenda that complements their area of academic specialty resulting in peer-reviewed publications and presentation, both of which are necessary for promotion and tenure at Farmingdale State College. The service component of the workload includes student advisement as well as active participation on departmental, school and college-wide committees. The faculty member may be expected to teach in multiple formats including hybrid, online and traditional face-to-face classes. The college particularly welcomes candidates with knowledge, skills and abilities that include: Commitment to diversity and university initiatives supportive of diversity and inclusion. Interest in participating in student-centered service activities. Desire to apply expertise in promoting civic engagement with the College's many community partners.

REQUIRED QUALIFICATIONS:

An earned doctorate in Computer Science, Computer Security, Cybersecurity, Computer Engineering, or a closely related field. Highly qualified ABD's may be considered if completion of the Ph.D. will occur by the Spring 2021 semester. A proven-track of records programming with C, C++, Java, Python, and/or other programming languages beyond school level, and familiarity with Windows, Linux and Mac OS. The candidate must be a permanent resident or a US citizen because Farmingdale State College does not offer any kind of visa sponsorship.

PREFERRED QUALIFICATIONS:

The candidate should have earned a Bachelor's degree in Computer Security, Computer Science, Computer Engineering, or a closely related field. He/she should possess expertise or interest in the areas of Computer security, cyber security, homeland security, physical security, artificial intelligence and/or machine learning. Applicant should possess excellent communication, interpersonal skills and have previous college level teaching experience. Evidence of prior teaching experience, scholarly publications and any industry experience is preferred.

ADDITIONAL INFORMATION:

This is a full-time, 10 month faculty position. For the first 10 working days, beginning Friday, October 25, 2019 and ending Thursday November 7, 2019, applications will be limited to UUP Farmingdale. CLOSING DATE FOR RECEIPT OF APPLICATIONS: Sunday, December 8, 2019. Salary: \$70,000/year, may increase commensurate with experience. ANTICIPATED START DATE: Tuesday, September 1, 2020. SUNY offers excellent fringe benefits including health insurance options and retirement plans. VISA SPONSORSHIP IS NOT AVAILABLE FOR THIS POSITION.

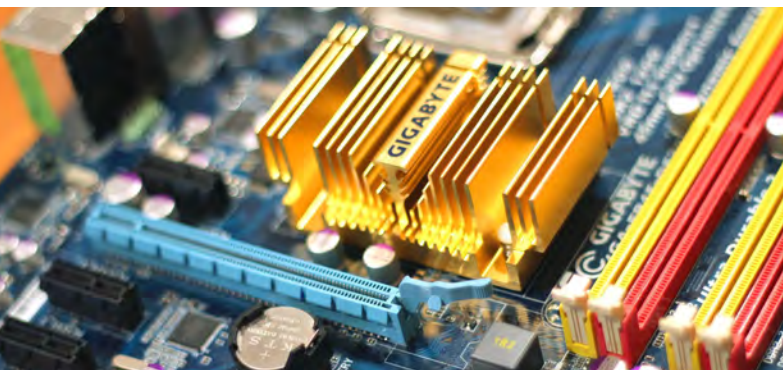
APPLICATION INSTRUCTIONS:

To apply, submit a letter of application (that includes a statement on teaching philosophy and methodology), c.v., copies of teaching evaluations, unofficial copy of graduate transcripts (showing highest degree awarded/or currently in process), names and contact information of three references. Only applications made through Farmingdale's electronic application system will be accepted. Candidates invited for interviews will be asked to make a presentation on their research/creative activities as well as a separate teaching demonstration.

TO APPLY GO TO:

www.farmingdale.edu/employment

Farmingdale State College
STATE UNIVERSITY OF NEW YORK



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