Tenure and Promotion Guidelines
Department of Electrical and Computer Engineering (ECE)
Florida International University, Miami, FL

The university-wide tenure and promotion (TP) guidelines can be found on the Academic Affairs website, http://academic.fiu.edu/faculty_resources.html. These TP guidelines provide a professional evaluation from a broader perspective compared to the department evaluation. The department TP guidelines further furnish an evaluation from a perspective that is specific to the Department of ECE.

EVALUATION CRITERIA

The evaluation of candidates for tenure and promotion is based on three criteria: (1) teaching, (2) research, and (3) service.

**Teaching**

Teaching refers to classroom-related activities, as well as, student mentoring. The basis for evaluation is (i) student perceptions (SPOTs), (ii) peer evaluation, and (iii) self-reporting. Peer evaluations are generally handled by the exchange of appropriate materials, e.g. class syllabi, notes, and exams. Student evaluations are mandatory for all classes, in accordance with University policy. New faculty may be inexperienced in teaching and during their evaluation period must demonstrate improvement in teaching effectiveness. The faculty candidates are expected to be effective, fair, and enthusiastic teachers as reflected by the teaching evaluation methodologies, mentioned above. The Faculty promotion file may include other measures of teaching efficiency, such as alumni references, exit interviews, or teaching portfolios.

The creation of new courses or modification of current courses is another criterion for the evaluation of the faculty’s teaching performance. The quality and number of new courses can serve to provide a measure of the faculty’s teaching performance. Any efforts towards designing innovative methods of teaching would be considered favorable for the tenure process. Examples include research to understand modern pedagogical methods in cohort universities, attending educational conferences (example: ASEE, NI-Week) creation of online classes, creation of interactive courses, and creation of project-based courses, among others.

For the broader impact of faculty’s research and to better prepare students for jobs of the future, faculty must develop new or modify existing courses to incorporate aspects of their scientific endeavors, what the National Science Foundation refers to as integrating research into education.

**Research**

Faculty is anticipated to demonstrate research activities that bear intellectual merit and have broader impacts. Such criteria are evaluated through the significant publications that result from such research and through funding that can be secured from federal grants, industry, and philanthropy. Further, these scholarly activities should align with the mission of the Department and/or the strategic themes of our
institution to broaden and strengthen faculty’s research potential through shared resources, collaboration and through the pursuit of multidisciplinary research.

External funding is an important component in sustaining a high level of scholarly research productivity. While funding alone is not sufficient evidence of scholarship, it serves as one of the evidences of scholarly quality in the candidate’s activity. Competitive funding from government agencies, e.g. National Science Foundation (NSF), the Department of Defense (DoD), the National Institutes of Health (NIH), NASA, the Department of Energy (DoE), and DARPA, among others, carry the highest weight. Significant efforts should be made to secure sufficient funds for summer support, graduate student support, and infrastructure support. Pursuing external research funding can be accomplished through the continuous submission, as a PI or a Co-PI, of 1) intra-departmental collaborative research proposals with other faculty within the department, 2) multi-institutional collaborative proposals spanning multiple universities, 3) inter-disciplinary research proposals spanning multiple departments, and 4) international collaborative proposals submitted to non-US funding agencies. Furthermore, in the early stages of one’s career, a successful researcher should submit research proposals as PI to early career programs such as the prestigious Faculty Early Career Development Program (CAREER), the Computer and Information Science and Engineering (CISE) Research Initiation Initiative (CRII), and DoE Early Career Grant, to name a few. Finally, a successful faculty should also participate in collaborative research proposals that have a direct impact on the department, college, and university as a whole such as the Engineering Research Centers (ERCs), Science and Technology Centers (STCs), Collaborative Research in Computational Neuroscience (CRCNS), NSF Research Traineeship (NRT), Cyberinfrastructure for Sustained Scientific Innovation (CSSI), and the Major Research Instrumentation (MRI) program, to name a few. For a complete listing of NSF funding opportunities (see https://www.nsf.gov/funding/index.jsp), for the National Institutes of Health NIH (https://www.nih.gov/funding/index.jsp), for DARPA (https://www.darpa.mil/our-research), for the Department of Defense-DOD (https://www.grants.gov/web/grants/search-grants.html), and for the Department of Energy DoE (https://www.energy.gov/science/office-science-funding/office-science-funding-opportunities) and https://www.energy.gov/articles/doe-announces-111-million-fy-2020-small-business-innovation-research-and-technology. Although these serve as good examples of programs that require collaborative efforts, other sites can be explored for additional funding opportunities.

In order to develop their research career, the candidate is expected to pursue an appropriate level of funding to support their research activity through the continued submission of proposals. Proposal submissions should reflect the ever-evolving research landscape and the feedback from past submissions. Faculty are expected to submit multiple proposals each year. It is highly anticipated that some of these submitted research proposals will be successful in being externally funded. The amount of the received funding will depend on the type of conducted research (e.g., theoretical versus applied) along with target funding agencies (e.g., NSF, NIH, DoD, corporate) that are appropriate for the candidate’s area of research. Nevertheless, at the time of tenure evaluation, faculty should have been awarded competitive grants (NSF awards have a typical budget of $300k and NIH awards have a typical budget of $500k). Awarded fellowships for students mentored by the candidate obtained from prestigious and highly competitive programs such as the NSF-Graduate Fellowship Program (GRFP), the National Defense Science and Engineering Graduate (NDSEG), Microsoft, and others should count as part of the funded grants for the candidate.
For awarded grants, where a candidate serves as a co-PI, it is important for the candidate to describe their involvement/contribution and the part of the budget that is associated to their research component. Co-PIs of grants are evaluated in the portion of funds specifically associated to them in the budget.

The candidate should always be aware that that the ECE department values quality over quantity and intellectual merit of the research which may take more time to yield funding as candidates persevere to publish their findings in highly regarded journals. For faculty on tenure track, reviewers’ comments, and panel summaries on submitted proposals can serve as important measures of the quality of the candidate’s proposals, whether funding is received or not, and foretells the potential for the eventual success of the candidate. These reviews and panel summaries may be included by the candidate in the tenure and promotion file.

It is expected of faculty to publish at least two major manuscripts every year, either in a top-ranked journal or a highly selective conference. Given the importance of graduate students’ publications, it is expected that most of these publications will be with Ph.D. students under the faculty’s supervision. Furthermore, patents will also be considered as a metric for research outcome/productivity.

Another faculty responsibility is mentoring and advising students. Faculty are expected to supervise at least two Ph.D. students in any given year, starting in the faculty’s third year. Additional advising, co-advising, and mentoring of master’s students will be considered towards the faculty’s mentoring responsibility. Student mentoring may also include master’s students and/or undergraduate students (e.g., through research experience for undergraduates (REUs) and senior design projects).

**Service**

Service to the department, the university, and the profession is expected and anticipated to be aligned with the mission of the Department of Electrical and Computer Engineering and FIU as a whole. The department is keenly aware that faculty on the tenure track, at least in their first three years should focus on service activities that could help for tenure. These include serving on review panels with NSF and other federal agencies, reviewing articles in their research areas, serving on editorial boards, and on search and screen committees. The candidate could also participate, if interested, in serving as chair of major committees here at FIU or elsewhere in conference venues to affirm their leadership role. Typical service activities include: (i) serving on departmental committees, developing laboratories, supervising technical or clerical personnel, activities associated with recruiting students, and supervising the use and maintenance of departmental resources; (ii) serving on thesis or dissertation committees, on college or university committees, on search or advisory committees, as a representative of the university as an expert in a specialized area; (iii) organizing national or international symposia or workshops, serving as a member of boards of international or national symposia, an officer in professional societies, referee or reviewer for funding agencies, professional journals, or textbook publishers, editorial boards of journals. Per the college’s mission of community engagement, faculty participation in outreach (through the university or self-organized) will also be considered during tenure evaluation.
PROMOTION ELIGIBILITY

Promotion from Assistant to Associate Professor Rank

At the level of Assistant Professor, establishing a record as a scholar in his/her area of research should be a major focus for tenure and promotion. Therefore, the candidate is not expected to heavily engage in service-related activities; however, he/she should display a willingness to engage in service activities. The candidate’s scholarly record is measured by citations of the candidate’s work by other scholars in the field; particularly, his/her record will be compared to that of outstanding scholars in the same discipline in equivalent ranks in other national institutions which are in the R1 category of the Carnegie classification with “highest research activities”. The candidate must have a record of effectiveness and growth as a teacher, achieved in both graduate and undergraduate courses.

Promotion to Professor Rank

For promotion to the rank of Professor, the candidate’s entire professional career is assessed, with particular emphasis placed on development while serving in the rank of Associate Professor. The candidate must have demonstrated evidence of high and sustained professional standing in teaching, research, and service. Promotion to the rank of Professor requires higher levels of performance, measured in both quality and quantity, compared to that required for promotion to Associate Professor, and requires evidence of national and international stature.

The candidate’s scholarly record is measured by citations of the candidate’s work by other scholars in the field and by other merits such as honors and awards for scholarship, invited talks and presentations, and sustained funding from federal agencies, industry, and philanthropy as confirmation of the intellectual merit and broader impact of the candidate’s scholarly activities.

The candidate’s record should demonstrate a willingness to participate in departmental and university affairs. Service, leadership, and maturity are relatively more important. The candidate should have reached the stature needed to serve as a mentor to junior faculty. The mentorship role is critical in the success of the junior faculty, which in turn is paramount to the success of the department and the institution that has invested in the career of the junior faculty, akin to a return on the investment.

TENURE

The tenure decision is based on the same evaluation criteria as the ones specified in the tenure and promotion review criteria; however, it is fundamentally different in that it implies an assessment of future performance as well as an evaluation of past performance. Consistency and durability of performance are relevant factors in evaluating faculty for tenure. The criteria for tenure are (i) a sustained track record of outstanding research, teaching, and service, (ii) evidence that the candidate will reasonably continue supporting the mission of the department of Electrical and Computer Engineering and that of the University, (iii) evidence of national and international stature, especially (for the rank of Professor).
The candidates do not have right to view his/her external tenure and promotion letters. Tenured faculty members, other than the candidate for the tenure and promotion, have the right to view the tenure and promotion portfolio of the candidate and to attend the T&P review meeting.

The normal required minimum length of time to obtain Tenure as an Assistant Professor is six years, with the submission process to start in early spring of the fifth year. The ECE department adheres to the FIU guidelines on Tenure Clock Adjustments with the Third Year Review being applied in the candidate’s third year of employment and tenure in the candidate’s sixth year of employment. For all other circumstances requiring tenure clock adjustment, the candidate needs to fill out the Tenure Clock Adjustment Form and send it to facultypromotion@fiu.edu for review. Additional details can be found at https://academic.fiu.edu/faculty_resources.html.