**Best Practices and Recommendations for Departmental Mentoring and Career Development Plans for Faculty**

**at the Medical University of South Carolina**

**Developed by the MUSC Mentor Leadership Council \***

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**\* See appendix 5 for members of Council**

**Table of Contents**

1. Introduction 3
2. Framework for Departmental Mentoring Plans 3
	1. A Statement of Department’s Goal on Mentoring 3
	2. Description of Promotion and Tenure Process 3

 Within Department

* 1. Documentation of Career Development 3
	2. Resources Available for Faculty Development 6
	3. Hiring of New Faculty and Initial Mentoring 7
	4. Existing Faculty 8
	5. Mentoring Plans and Agreements 9
	6. Developing, Training and Rewarding Mentors Within the 10 Department
	7. Metrics of Successful Mentoring 11

2.10 Role of Chairs, Promotion Committees, and Deans 12

3. References 14

4. Appendix 1. Institutional, State, and National Resources for 16

 Supporting Mentoring and Faculty Development at

 MUSC

5. Appendix 2. Example of a Mentoring Agreement 25

6. Appendix 3. Example of a Career Development Plan 26

7. Appendix 4. Examples of Mentor / Mentee Evaluations 28

8. Appendix 5. Members of MUSC Mentor Leadership Council 30

**1. Introduction**

The MUSC Mentor Leadership Council is an institutional committee that was approved by the Provost and Deans of all the Colleges at MUSC to develop a set of best practices and recommendations that will help foster mentoring of faculty across campus. One of the first tasks of the committee is to develop a departmental mentoring plan framework that each department can use to enhance an existing mentoring plan or develop a new plan. The departmental mentoring plan framework outlined below consists of several elements that the Mentor Leadership Council considered most important for successful mentoring within each department. Some components of this document have been adapted from some existing department mentoring programs at MUSC (Surgery, ENT, Anesthesia).

**2. Framework For Departmental Mentoring Plans**

**2.1 A Statement of Department’s Goal on Mentoring**

**An Example**. The goal is for all faculty of the department to achieve their individual full potential as members of the College of <*name*> and Medical University of South Carolina and to be rewarded for that achievement. Since the University is a place where everyone is learning, it is vital that each member of the faculty see tangible evidence of that professional growth, whether it be in the easily measured domains of writing papers for publication, writing and receiving grants, or preparing and presenting lectures for students and trainees of our colleges, or in the less easily measured aspects of teaching students, residents and fellows, mentoring young investigators and junior faculty, or developing clinical expertise by specializing in some area of clinical medicine. It is incumbent on faculty members, their mentors, Department Chairs, and the university leadership to see that tangible progress is being made and documented. This mentoring plan is designed to assist in this process.

**2.2 Description of Promotion and Tenure Process Within Department**

Each College at MUSC has different tracks and ranks and a process through promotion in which faculty progress is documented. The various ranks in our Department and College are listed below with guidelines for achieving them.

*- Provide list of tracks and ranks within Department and criteria for achieving them.*

*- Provide links to Department and College websites for more details*

*- Provide description of how Department’s Promotion and Tenure Committee operates*

**2.3 Documentation of Career Development**

In order to achieve promotion and tenure, the professional growth of the faculty member must be documented. In addition to an up-to-date curriculum vitae in the format required by the College in which your Department resides (*provide website for this*), portfolios of your research, teaching, and clinical accomplishments are important to develop and keep updated as you progress through the academic ranks. To advance through the academic ranks the quality of the faculty member’s individual scholarship is of critical importance, but depending on your track, more emphasis will need to be placed on a specific portfolio e.g., for academic investigators, the research portfolio is most important, whereas for a faculty member in an academic educator track, the teaching portfolio is of primary importance. The typical components of each of these portfolios include but are not limited to the following:

 **Academic** **Researcher Portfolio**

1. Completion of educational requirements necessary for career in academic research
2. First authored original publications (with impact factor information if possible)
3. Senior authored original publications (indicate whether the first author was someone

 you mentored)

1. Co-authored original publications
2. Other publications, e.g., review papers, book chapters, textbooks
3. Career training grant awards
4. Independent grant awards as PI
5. Grant awards as Co-investigator

9. Presentations of research at national / international meetings

10. Peer recognition for research activities including invitations to present at

 national / international meetings and other universities

11. National recognition as evidenced by election to specialty societies, editorial

boards, service on national committees, NIH study sections, grant review panels of other funding agencies

12. Institutional or external research awards

13. Mentoring achievements: individuals mentored, achievements of mentees including grants received and important publications of mentees under your guidance, and where mentees are today

14. Membership and involvement in professional and scientific organizations

15. Contributions to research-oriented committees at department, college, university, community, state, regional, national and international levels

16. Leadership roles in research in appropriate department, college, or university

**Academic Educator Portfolio**

A teaching portfolio includes documents and materials that show the scope, quality, and creativity of faculty members’ teaching efforts, progress, and achievements 1. Reflection is an integral part of the portfolio and shows how faculty members have integrated new learning with their teaching philosophy and performance.

The typical components of a teaching portfolio include the following:

1. Completion of educational requirements necessary for career in academic teaching

2. Philosophy of teaching and learning

3. Teaching goals for student accomplishment

4. Teaching methods and evaluation strategies

5. Participation in course and/or curriculum development

6. Engagement in the scholarship of teaching and learning (SoTL)

7. Evidence of teaching accomplishments

* 1. Description of types of different teaching activities such as formal courses, small group seminars, one-on one tutorials, supervision of student research projects, chairing thesis or doctoral committees, and coaching manuscript preparation for students, residents, and fellows
	2. Course materials (syllabi, readings, handouts, assignments, examinations)
	3. Samples of teaching innovation (simulation, educational technology)
	4. Samples of manuscripts related to teaching and or educational activities
	5. Student, resident and fellow evaluations of teaching
	6. Peer evaluations of teaching
	7. Audience evaluations of presentations at state or national meetings
	8. Membership in departmental, college, university, society, community, state, regional, national and international committees or organizations related to teaching
	9. First authored publications (papers, chapters, reviews, textbooks) related to teaching
	10. Senior authored publications (papers, chapters, reviews, textbooks) related to teaching
	11. Co- authored publications (papers, chapters, reviews, textbooks) related to teaching
	12. Grant awards related to teaching
	13. Presentations on teaching at national / international meetings
	14. Leadership roles in teaching in appropriate department, college, or university
	15. Honors and awards for teaching

8. Mentoring achievements in teaching: individuals mentored, achievements of mentees in teaching arena, and where mentees are today

**Academic Clinician Portfolio**

1. Completion of educational requirements necessary for career as an

 academic clinician, including certification by appropriate specialty board

2. . Evidence of a heavy clinical load

3. Evidence of excellence in high quality patient care

4. Development of innovative clinic practices i.e., new clinical services that the faculty member established or participated in e.g., telemedicine, new surgical technique

5. Evidence of organization of clinical services to provide an optimal setting for medical education and a data base for research

6. Evidence of excellence in clinical training of students, residents, and fellows

7. Documentation of teaching activities including formal lectures, grand rounds, and continuing medical education

8. Superior evaluations of teaching by students, residents, fellows, peers, course directors and department chairs

9. First authored publications (papers, chapters, reviews, textbooks)

10. Senior authored publications (papers, chapters, reviews, textbooks)

11. Co-authored publications (papers, chapters, reviews, textbooks)

12. Presentations at national or international meetings

13. Peer recognition for clinical activities including invitations to present at national / international meetings and other universities

14. Co-investigator on research grant awards

16. Mentoring achievements: clinicians trained, achievements of trainees, and where trainees are today

17. Membership and involvement in professional and scientific organizations

18. Contributions to clinically oriented committees at department, college, university,

 community, state, regional, national and international levels

19. Leadership roles in clinical activities in appropriate department, college, or university

At most universities there are unique cases where faculty members’ roles are not primarily in research, teaching, or clinical activities, but rather may serve in extramural program development, as reference librarians, instructional technologists and designers, curriculum designers, and providers of academic support for students, as examples. In such cases the fundamental anchor for promotion and tenure is scholarship.  Opportunities for scholarship exist in many areas including discovery, application, integration, and teaching such as the development of local and global initiatives, the development of online programs of study, research related to the use of educational technology, and the design and implementation of faculty development opportunities.  These scholarship activities may be conducted individually or in collaboration with others.  Evidence of scholarship typically includes publications in peer reviewed journals, a strong national visibility related to area(s) of expertise, and evidence of funding.  Each college/unit may differ in the tracks it offers for its faculty members and thereby influence the likely nature and direction of scholarship. No matter the individual circumstance, one of the most fundamental components of seeking promotion and/or tenure is to determine at the time of faculty appointment the expectations for promotion and tenure, and have a mentor to help guide and advise in this process.

**2.4** **Resources Available for Faculty Development**

Resources are required for optimal faculty development and may be found in the department, at the institutional level, and at the state or national level.

**Departmental Resources**

*- Describe Department’s resources for supporting faculty development:*

 *Examples: i. how protected time for research or teaching is decided;*

*ii. personnel support, e.g. for administrative assistants, research nurses, nurse*

 *practitioners, physician assistants, lab technicians;*

 *iii. Departmental funds available for supporting pilot studies;*

 *iv. statistical support within the Department (if any);*

 *v. laboratory facilities;*

 *vi. travel to scientific meetings, and purchase of books, journals or software.*

In addition to the department’s resources, a detailed list of institutional and state and national resources for supporting clinical and translational research, basic science research, and education are provided in Appendix 1.

It is also important for all faculty to be aware of two important faculty groups on campus that serve important organizational, support and advocacy roles for faculty:

**The Faculty Senate** is the representative body of the Medical University of South Carolina faculty ([http://academicDepartments.musc.edu/faculty\_senate](http://academicdepartments.musc.edu/faculty_senate)). The Senate’s recommendations reflect and advocate the faculty's collective interests to further the university's mission. The mission of the MUSC Faculty Senate is to represent the views, needs, and interests of faculty in the educational, research, and service programs of the university.

**The Women Scholars Initiative (WSI)** is a joint initiative of the Office of Academic Affairs and the Office of the President with a long-term goal of promoting careers of women faculty. This organization provides a monthly workshop series (recent topics include promotion and tenure, work/life balance, contract negotiation, financial planning, and establishing good mentoring relationships). Other events sponsored by the WSI include the annual Eminent Scholar Seminar and Award, which brings an eminent scientist to MUSC to talk about his/her work and visit with MUSC faculty members. Past Eminent Scholars include members of the National Academy of Sciences and the Howard Hughes Medical Institute. WSI sponsors the John R. Raymond Fellowship, an annual award made to a junior faculty member to be used towards building a collaboration with a renowned expert (male or female) in her field. WSI also sponsors a number of peer mentoring events and roundtables. WSI events are open to all MUSC faculty. Learn more at[http://academicDepartments.musc.edu/womenscholars/index.htm](http://academicdepartments.musc.edu/womenscholars/index.htm)

**2.5 Hiring of New Faculty and Initial Mentoring**

Successful faculty development begins during the hiring phase of a new faculty recruit. When new faculty members fail to fulfill their potential or get frustrated professionally, it can sometimes be traced back to a failure in the hiring process, e.g., misunderstanding the demands of the position by the new recruit, not knowing about impending decisions that could impact the job, not negotiating for adequate resources to be successful, or not identifying a committed mentor.

As such, departmental mentoring plans should place special emphasis on the process of hiring new junior (assistant professor or lower rank) or mid-level (associate professor) faculty. In this regard, the Mentor Leadership Council recommends that once a decision is made to seriously consider hiring such a new faculty candidate, a member of the department who met and interacted well with the recruit during the initial interview and who is willing to be the interim mentor for the new recruit should be identified. Ideally this should be a senior faculty member (not the Department Chair) who would not be competing in any direct or indirect way for resources with the new recruit. This mentor should be familiar with the candidate’s career plans and know what the needs of the recruit are to be successful. The mentor would then work with the Chair, acting as an advocate for the new hire in the negotiation process. Aspects of the negotiation process that could constitute a conflict of interest for the interim mentor (e.g., salary of hire, financial component of a start-up package, number of clinics per week if mentor would be impacted by that arrangement) should be excluded from the items that the interim mentor would assist with during the negotiations. Some of the items that the interim mentor could assist with during the negotiations are:

* deciding on the right track and rank
* % effort for clinical activities including after hours call (if not a conflict for the interim mentor)
* % effort for teaching (if not a conflict for the interim mentor)
* adequate protected time for research and teaching effort
* adequate support for administrative, clinical (e.g. nurse practitioner or physician assistant), and research efforts (e.g. research nurse, lab technician)
* development of a mentoring team. The initial mentor can help the recruit develop a mentoring team. This can start during the interview process by introducing the candidate to potential members of a mentoring team and continue once the new faculty member arrives.

The final offer letter from the Department Chair to the new hire should include specifics on each of the above items including identification of the interim mentor(s).

Attendance at a new faculty orientation session should be compulsory for all new faculty, ideally within 1-3 months of arrival at MUSC.

**2.6 Existing Faculty**

All existing faculty at ranks lower than full professor should have a lead mentor and possibly a mentoring team (see 2.7 below). If an existing faculty member does not have a mentor, the faculty member and the Department Chair should meet to discuss the assignment of a mentor. This mentor should have the same characteristics as those described above in 2.5 for new faculty, i.e., a senior faculty member (not the Department Chair) who would not be competing in any direct or indirect way for resources with the mentee. The mentor would then help the faculty member come up with a career development plan. A meeting between the faculty member, mentor, and Chair should be arranged to discuss the resources that are needed for the faculty member to be successful. Many of the bullet items listed in 2.5 above may have to be addressed to help with the professional development of the existing faculty member.

**2.7 Mentoring Plans and Agreements**

Each department should establish a faculty mentoring plan that is based on the department’s unique resources and the needs of its faculty. Many different models for successful mentoring at academic medical centers have been proposed 2-15. Some of these models are specific for research mentoring 6,7 whereas others are focused on specific subspecialties 10,11,13. Regardless of which mentoring model is considered most effective for a particular department, the Mentor Leadership Council suggest the following guidelines in developing the model:

* Each Department Chair should assign a senior faculty member who is passionate about mentoring as a mentor champion for that department. The champion’s role is to design a faculty mentoring plan for the department based on the department’s resources and needs of the faculty using this document as a framework, to implement the plan, to monitor each mentee – mentor partnership in the department and suggest solutions when problems arise, and to network with mentor champions in other departments and the Chair of the Mentor Leadership Council to enhance mentoring programs across campus. Some level of salary support for departmental mentoring facilitators should be considered given the scope of their responsibilities.

* The responsibility of developing an individual development plan (IDP) for each faculty member should be shared by the individual faculty member and the lead mentor.
* A successful mentoring plan provides guidance in several different areas including: advice in area of focus (e.g., research, teaching, clinical care); professional development, which should include an active role for the mentor in promoting the career of the mentee (e.g., suggesting role for mentee on a grant review panel or scientific writing committee, introducing the mentee to leading experts in the field, etc); monitoring the progress of the mentee; helping to ensure academic promotion of the mentee at MUSC; academic career guidance; and psychosocial support.
* The traditional model of one-on-one mentoring may not be effective for each faculty member and a team approach to mentoring may be more effective. Successful junior faculty often learn to rely on different mentors, including peers 14-15, for each of these components of the mentoring plan listed above, i.e., they use a team of mentors rather than an individual mentor. Typically this team would consist of a scholarly mentor who is an expert in the scientific or scholarly area of the mentee and a career mentor who is a senior faculty member who provides career guidance and support 16. These different roles can often be performed effectively by one mentor. Developing a mentoring team for a faculty member may take time and trial and error. The lead mentor, mentoring champion, and the Department Chair will have important roles in helping the mentee develop an effective mentoring team.
* Regardless of whether the mentee has a single mentor or a team of mentors, one mentor should be the lead mentor.
* At MUSC, we strive to create an academic healthcare community where every member is respected and valued.  We believe in the strength of a diverse and inclusive workforce, where differences provide us the unique ability to positively impact patient care, research and education. In designing and implementing department mentoring plans, it is very important that the plan includes effective mentoring approaches that take into account the background, strengths, and needs of each mentee to help enhance the chances of academic success. 17

To ensure that each mentee – mentor relationship is an effective one and for each party to understand their commitments to that process, we recommend that a formal agreement between the mentee and each mentor should be reached that describes how they will work together and collaborate on the development of a mentoring plan. Two examples of this type of agreement are included in appendix 2. Meetings between the mentee and the career mentor should occur at least twice per year to review the mentee’s updated curriculum vitae and Individual Development Plan (IDP). An example of an IDP is provided in appendix 3. The frequency of meetings between the mentee and the scholarly mentor should be at least once per month to discuss the progress of research or scholarly activities, grant and manuscript preparations, facilitating networking, provide guidance on coursework and training opportunities.

**2.8 Developing, Training and Rewarding Mentors Within the**

 **Department**

Mentoring should be part of each faculty member’s Departmental and academic responsibilities. Mentoring is professionally stimulating and personally satisfying, and is a way of giving back to the profession. There is a continuum in mentoring from teaching and advising students and trainees to assisting faculty colleagues with research and career development, often across college or departmental lines. These mentoring relationships are critical and are part of the fabric of an academic institution. While this document focuses on faculty development, it is important for all faculty to mentor students and trainees. In this regard, the College of Graduate Studies requires all new faculty interested in training graduate students or postdoctoral fellows to become a member of the College’s faculty. The information for applying for membership can be found at [https://academicdepartments.musc.edu/grad/faculty\_resources/index.htm](https://exchange.musc.edu/owa/redir.aspx?SURL=cdOkyO7_Ywy7hZ3UXSVlI9yMnWQp9VP-HrNnqRsEwe_P-xiqoHPTCGgAdAB0AHAAcwA6AC8ALwBhAGMAYQBkAGUAbQBpAGMAZABlAHAAYQByAHQAbQBlAG4AdABzAC4AbQB1AHMAYwAuAGUAZAB1AC8AZwByAGEAZAAvAGYAYQBjAHUAbAB0AHkAXwByAGUAcwBvAHUAcgBjAGUAcwAvAGkAbgBkAGUAeAAuAGgAdABtAA..&URL=https%3a%2f%2facademicdepartments.musc.edu%2fgrad%2ffaculty_resources%2findex.htm).

While the skills required for effective mentoring come naturally to some faculty, even those mentors could benefit from mentoring training programs 16-19. In this regard, SCTR is planning to a bi-annual mentor training program starting in 2016 that will train faculty at all levels to be effective mentors. As part of a departmental mentoring program, we recommend that all faculty participate in such a training program every 5 years.

Although each department should require all faculty to mentor in some capacity, Department Chairs should also recognize that much of the faculty mentoring is often done by a few passionate and successful mentors. Junior faculty tend to gravitate to successful mentors. This presents a challenge for the successful mentor in terms of providing sufficient time to mentor several mentees. One way to do this for mid-career or senior scientists is to apply for mentoring awards from NIH (K05, K07, or K24 grants) that can provide up to 50% salary support for 5 years (renewable for another 5 years in some NIH institutes). Some members of the Mentor Leadership Council and other faculty members at MUSC are current or past recipients of these awards and can help other faculty apply for these awards. Contact the Office of Research Development if you are interested in applying for a K05, K07, or K24 award, and their staff will connect you with a current or past recipient of one of these awards.

Departments should also consider ways of supporting and rewarding successful, in-demand faculty mentors who are typically already over-committed with their own research, clinical, educational, or administrative responsibilities. Without this support, the Mentor Leadership Council is concerned that those mentors will limit the amount of mentoring they will take on as they are forced to support their effort through other reimbursable activities. Since these mentoring activities are key to the success of junior faculty achieving career goals (e.g. obtaining NIH funding), which in turn brings the department and the institution prestige and additional resources, it is key that departmental and institutional leadership develop strategies to reward successful faculty mentors. 19 These strategies could include:

* providing salary support for those mentors with a particularly heavy mentoring load
* providing a financial bonus for successful mentoring
* providing annual awards for successful faculty mentors
* ensuring that successful mentoring is a criterion to be used for promotion.

**2.9 Metrics of Successful Mentoring**

To determine the success of each mentee – mentor relationship and the department mentoring plan, metrics need to be developed for measuring these criteria. The mentee and mentor in each relationship should be required to complete a confidential evaluation report at least annually that should be reviewed by the Department Chair. Examples of these surveys are provided in appendix 4.

Other metrics that should be used to determine the effectiveness of the mentee – mentor relationship will depend on whether mentoring is related primarily to research, education, or clinical activities.

**Research-related metrics for determining the effectiveness of mentoring**

* number of grants submitted by mentee under the mentor’s guidance
* number of these grants funded
* number of original publications under the mentor’s guidance
* importance of original publications under the mentor’s guidance (e.g., impact factor, editorial written on paper)
* career development progress of mentee while guided by the mentor, e.g., presentation of research at national / international meetings, invited presentations at meetings or other universities, election to study sections or specialty societies, promotion of mentee
* research awards of mentee under the mentor’s guidance

**Teaching related metrics for determining the effectiveness of mentoring**

* teaching accomplishments of mentee under mentor’s guidance, e.g., formal courses taught, course materials developed, innovative teaching methods developed
* number of education publications under the mentor’s guidance
* importance of education publications under the mentor’s guidance (e.g., impact factor, editorial written on paper)
* number of education grants submitted by mentee under the mentor’s guidance
* number of these grants funded
* career development progress of mentee while guided by the mentor, e.g., presentations at national / international meetings, invited presentations at meetings or other universities, membership in education committees in or outside of the institution, promotion of mentee
* honors and awards for teaching to the mentee under the mentor’s guidance

**Clinical related metrics for determining the effectiveness of mentoring**

* number of presentations at institutional, national, or international meetings by trainees (students, residents, and fellows) or junior clinical faculty under the mentor’s guidance
* number of publications by trainees (students, residents, and fellows) or junior clinical faculty under the mentor’s guidance
* innovative clinical care developed by junior faculty under mentor’s guidance
* career development progress of trainees and junior clinical faculty while guided by the mentor, e.g., graduation from clinical training program of trainees and subsequent positions, invitations to junior clinical faculty to present at meetings or other universities, junior faculty participating as members in clinical committees in or outside of the institution, promotion of junior clinical faculty
* honors and awards for teaching to the junior faculty member under the mentor’s guidance

Metrics to determine the overall effectiveness of the departmental mentoring plan should include:

* + surveys of faculty on their satisfaction with the plan and their job overall
	+ attrition of faculty within the department, especially junior and mid-level faculty
	+ promotion of faculty within the department
	+ number of successful mid-career awards for trained mentors NIH (K05, K07, or K24 grants)
	+ number of career development awards of mentees (e.g., K23, K08, KL2)
	+ total funding from all mentored activities
	+ total number of publications overseen by mentors
	+ an external review of the mentoring program by a senior member of the College leadership designated by the Dean every 5 years.

**2.10 Role of Chairs, Promotion Committees, and Deans**

The Department Chair is ultimately responsible for ensuring that all faculty in the department are mentored successfully. This includes overseeing the development of a specific mentoring plan for the department and monitoring the effectiveness of the plan. The Chair should meet with each mentee at least annually to review the progress of the mentee and the effectiveness of the mentee – lead mentor relationship, and to ensure that areas of concentration facilitate the mentee’s successful career development and departmental strategic plan. The Chair may also suggest and facilitate a change of mentor(s) if the relationship is not deemed beneficial for either participant.

The department’s internal promotions committee should also review the mentee’s career development annually, list what is missing in the faculty members portfolio for promotion, and make specific recommendations about how to achieve promotion to the Chair (or faculty member directly)

The Deans of the colleges should hold the Department Chairs accountable for ensuring that their faculty are well mentored and are being promoted, and organize periodic reviews of each department’s mentoring plan.

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**Appendix 1.** **Institutional, State and National Resources for Supporting Faculty Development at MUSC**

**1. Institutional Resources**

**1.1 Research Support**

There are a number of institutional resources that support clinical, translational, and basic science research. These are listed on the MUSC Research and Discovery website (**http://research.musc.edu/index.html**). Some of these resources are described below:

* **The South Carolina Translational Research (SCTR) Institute.** The recently NIH funded MUSC Clinical Translational Science Award (CTSA) that is called the South Carolina Translational Research (SCTR) Institute (<http://sctr.musc.edu/>) provides research support to investigators across campus. Within SCTR is the **SUCCESS Center** which provides research navigation support such as collaborator and mentor matching and links to institutional cores and programs. Additionally, the SUCCESS center (https://sctr.musc.edu/index.php/programs/success-center) provides consultation for regulatory submissions and study subject recruitment, lists studies on clinical trials registry, and helps with grant budget development. At SCTR there is a toolkit that can help the most inexperienced investigator navigate the process required to get clinical trials underway and much more. MAP-R is a web portal that identifies approvals needed for all types of grant submissions Visit <https://sctrweb2.musc.edu/research_toolkit> to find a wealth of information and pertinent advice about research at MUSC.
* **Funding Opportunities** are available through the KL2 and Pilot Project Program of SCTR and the University Research Committee. <https://sctr.musc.edu/index.php/education/k12> <https://sctr.musc.edu/index.php/programs/pilot-projects>

http://research.musc.edu/urc/home.htm

* **SCTR Vouchers** can be requested for up to $1,000 for research services and supplies per approved protocol every six months. Investigators are limited to two active vouchers in any one six month period as long as they are for two different protocols. For more information please visit <https://sctr.musc.edu/index.php/voucher>.

If you think that applying for a SCTR Voucher could be beneficial to your research study, please visit [http://sctr.musc.edu](http://sctr.musc.edu" \o "http://sctr.musc.edu/%22%20%5Ct%20%22_blank) and fill out a Service Request Form. The SUCCESS Center staff reviews all voucher requests and a decision of award is made within two business days of application.

* **The Office of Research Development (ORD)** (http://research.musc.edu/ord/index.html), which is funded through the Vice President for Academic Affairs & Provost’s Office, focuses on program and proposal development, identifies funding opportunities, develops proposal concepts, networks faculty members with complementary interests, provides grant-writing consultation and workshops, offers pre-submission critiques, compiles institutional data, and prepares competitive proposals for research resources and research training. New faculty and trainees are encouraged to visit the office in 101 Basic Science Bldg to meet the ORD staff and learn about networking opportunities. The following are among the services offered by the Office of Research Development:

Research Project Grant (RPG) Retreats are held approximately 3 times / yr. These interactive half-day sessions give individual investigators the opportunity to gain constructive criticism on a specific research concept or proposal. Researchers at any phase of career development are encouraged to present or attend.

ORD Alerts mailing list is a service for MUSC faculty and trainees to receive research news and funding opportunities by email (**http://research.musc.edu/ordalerts.html**.)

Community of Science (COS) is an external web-based system, offered as an institutional subscription service, that provides a range of services including searchable databases for funding opportunities and expertise, as well as a personalized workbench from which to access and manage COS services.

Institutional “Boilerplate” is a compilation of information about MUSC, its components and programs, primarily used to assist MUSC faculty, staff, and trainees in preparing institutional resources and environment sections for research grant and contract proposals.

Grantsmanship Workshops are held twice per year. Led by an external consultant, the workshop content focuses on the NIH organization, peer review system, grantsmanship tips, and the ABCs of an R01 or other NIH grant application. Individual and team consultations are also offered. The workshops and consultation opportunities are an institutional research support service, provided at no charge to investigators or programs.

MyPeerReview is an internal, on-line searchable database of information about MUSC faculty service on review panels and study sections for the NIH and other federal and non-federal sponsors, as well as journals for which MUSC faculty members have served or currently serve as an ad hoc reviewer, member, editorial board, etc.

* **Grant Writing Help** is provided by: i. The Office of Scientific Editing and Publications (OSEP) which provides support to augment manuscript and grant writing skills for MUSC faculty, trainees, and staff **http://research.musc.edu/APR/OSEP.html**, and ii. through the SUCCESS center https://sctr.musc.edu/index.php/programs/success-center.
* **Grant Administrative Support**. The Office of Research and Sponsored Programs (ORSP) and Office of Grants and Contracts Accounting (OGCA) provide the fundamental support need to obtain and manage sponsor-supported research funding. In addition to individual support, their websites provide important information regarding basic information needed for submission, and management of grants and contracts.
* Office of Research and Sponsored Programs (<http://research.musc.edu/orsp/index.html>)
* Office of Grants and Contracts Accounting ([http://academicDepartments.musc.edu/vpfa/finance/gca/index.htm](http://academicdepartments.musc.edu/vpfa/finance/gca/index.htm))

**Some Specific Resources for Clinical and Translational Research:**

* **Clinical & Translational Research Center** **(CTRC)**. The primary purpose of the CTRC is to support clinical and translational research projects within the institution and SCTR affiliate members as well as pilot studies that may lead to future NIH or other sources of peer-reviewed clinical/translational research grant support. The specialized staff of the CTRC consist of research nurses, laboratory personnel, nutritionists, IT specialists, and professional/administrative personnel. A core laboratory, fully-equipped outpatient clinic, dental suite, and imaging suite comprise the highly-technical physical facilities that are on hand to support your research. <https://sctr.musc.edu/index.php/programs/clinical-a-translational-research-center>
* **Biostatistics Consultation** through the SCTR Biostatistics & Epidemiology Program. Services offered are:
	+ Biostatistical Education: Consultation and assistance in understanding one or more biostatistical concepts
	+ Methodology/Study Design: Guidance with selecting an appropriate study design or developing a statistical analysis plan
	+ Power Analysis / Sample Size Calculation: Assistance with determining the statistical power or sample size required for a proposed study
	+ Data Analysis: Assistance with analyzing data collected for a research study
	+ Other: (e.g. help with presentations, manuscripts, etc.)

These services are offered for several different settings:

Assistance Preparing Grants (Federal, Foundation, Other)

Assistance Preparing CTRC Protocols

Assistance with Current CTRC Funded Project

Unfunded Research Project (e.g. Abstract/Manuscript Preparation)

Links to these services are <http://sctr.musc.edu/index.php/programs/biostats> and
<http://sctrweb2.musc.edu/research_toolkit/preaward/grantproposal/statistic>

* **Master of Science in Clinical Research Program (MSCR)** degree is offered by MUSC. This program teaches core competencies in clinical research methods, fosters development of a sustainable research focus, and provides the participant with the skills to compete for extramural support. <https://sctr.musc.edu/index.php/education/mscr-masters-of-science-in-clinical-research>
* **Society of Clinical Research and Translational Early Scientists (SOCRATES)** provides a forum for junior faculty to present their research projects in front of peers, senior researchers and statisticians, foster collaboration across multiple subspecialties at MUSC, and trouble shoot about ways to improve mentoring across campus <https://sctr.musc.edu/index.php/programs/teach/133>

**Some Specific Resources for Basic Science Research:**

* **Research Support** (http://research.musc.edu/researchresources.html)
	+ - Shared Core Facilities. A number of core facilities are available to support basic research (see information of each of these facilities in Research Shared Facilities on this website). In addition, an annual EXPOsition of these facilities that enables meetings with core personnel occurs in the Fall each year.
		- College of Graduate Studies (CGS) Office of Postdoctoral Affairs. In addition to providing useful information regarding practical aspects of hiring and mentoring postdoctoral scientists, the office also offers services to enable recruitment of postdoctoral scientists.
* **Responsible Conduct of Research (RCR).**
	+ - CGS RCR Retreat resources. All MUSC postdocs participate in a mandatory 2-day retreat focused on career development, conflict resolution, and compliance issues related to the responsible research practices. All lectures and handouts are available on the CGS website.(http://www.musc.edu/grad/postdoc/rcr.html)
		- The HHS Office of Research Integrity website has a wealth of educational resources on RCR practices with case scenarios, videos and tutorials for all stages of research professionals (http://ori.dhhs.gov)
* **Personnel/Trainees Relationships**
	+ College of Graduate Studies (http://www.musc.edu/grad/)
		- Graduate Faculty Resources – application for appointment to graduate faculty and conflict of interest forms.
		- Mentoring Compact – AAMC recommendations for mentoring graduate students and postdocs (http://www.aamc.org/research/postdoccompact).
		- Graduate Council Minutes – record of monthly meetings and policy discussions.
		- Graduate Faculty Research – web-based database of faculty research interests to aid students looking for potential mentors.
		- Training Grants – listing of MUSC training grants and career development programs for graduate students and postdocs.
		- Student Handbook – specifics of graduate programs, resources, dissertation requirement, and CGS policies.
		- Summer Research Programs for Undergraduates and Health Professional Students. These programs provide students the opportunity of a 10-week long internship with MUSC faculty.(http://www.musc.edu/grad/summer/index.html)
	+ Howard Hughes Medical Institute
		- “Lab Management: Making the Right Moves” is an essential resource for postdocs and faculty, available free on-line. (<http://www.hhmi.org/resources/labmanagement/moves.html>)
		- “Entering Mentoring” provides guidance in mentoring individuals with diverse learning and personality styles. (http://www.hhmi.org/catalog/main?action=product&itemId=272)
	+ Human Resources Career Development Courses and Seminars. MUSC HR provides a variety of professional development workshops and seminars to facilitate more effective lab management and hiring practices. (http://academicDepartments.musc.edu/vpfa/hrm/training/trainingpage)
	+ International Scientific Presenters Toastmasters. This club provides a supportive environment for learning how to give effective scientific presentations, and benefit from constructive feedback of peers and faculty sponsors.(http://scientific.freetoasthost.us)
	+ CGS725 Teaching Techniques. This course is offered every Fall and Spring semester and is open to all students and postdocs. Contact the College of Graduate Studies office for registration information (weised@musc.edu)
* **Networking Opportunities**
	+ “B & BS“ (halushpv@musc.edu). The B & BS club provides an informal forum for faculty, postdoctoral and graduate students to present their research ideas, grant proposals or research problems to a mixed audience that can provide useful feedback and often potential collaborations or exchange of reagents
	+ MUSC Core Facilities “Octoberfest” Reception. This is an annual event for core facility directors to highlight the services available.
	+ Research INKlings (http://research.musc.edu/inklings.html). INKlings is a monthly on-line news letter of recent events of interest to MUSC researchers.
	+ SACNAS promotes a diverse research academy by providing workshops and networking opportunities that encourage Chicano/Hispanic and Native American students and postdocs to pursue and persist in STEM fields. This is also an excellent recruitment resource. (http://www.sacnas.org/)
	+ ABRCMS is an annual conference that brings underrepresented minority students and postdocs together to present their research in an environment that encourages their development into future STEM faculty. This is also an excellent recruitment venue. (<http://www.abrcms.org/index.html>)
	+ [www.MinorityPostdoc.org](http://www.MinorityPostdoc.org) hosts a variety of career development resources for postdocs, including job listings and articles, with an emphasis on minority scholars.

**1.2**  **Resources for Education**

1. **1.2.1. Types of Educational Technology**
a. Tegrity -  Tegrity is a lecture capture service that lets faculty automatically capture every class – on and off campus – for later review by every student, anytime, anywhere.  <http://tegrity.musc.edu>
b. Adobe Connect - Adobe Connect is a Web conferencing software that securely shares presentations and multimedia right from a desktop computer, supporting feedback from hundreds of participants — all using a web browser and the Adobe Flash® Player runtime.   <http://connect.musc.edu>
c. WebCT - WebCT is MUSC’s current Learning Management System.  A Learning Management System is a software package that enables the management and delivery of learning content and resources to students.
2. <http://webct.musc.edu>

**1.2.2 Education Technology Services (ETS)** Provides support in the areas of digital imaging, audio visual support in centrally scheduled classrooms and distance education technologies, and video production.

**1.2.3. Apple Tree Society** - The Apple Tree Society exists to foster dialogue and

activity related to the scholarship of health professions teaching through campus and national partnerships. <http://www2.edserv.musc.edu/appletree/>

The following are the goals of the Society:
• Expand the faculty development opportunities related to teaching on
 **c**ampus.
• Initiate programs that recognize and enhance the value of teaching as a scholarly

activity.
• Explore and support innovative methods and technologies for teaching and learning.
• Promote professional development of current and future educators.

Activities of the Society include:
•  Monthly Brown Bags – noontime sessions on topics related to the

 Scholarship of teaching
•  Workshops focused on development of teaching skills including lecture

 and presentation skills, case based discussions, evaluating learners, and

 using technology such as WebCT (see below)
•  Collegiality – informal meetings to discuss teaching and learning

**1.2.4. Copyright Toolkit** - Understanding and complying with the laws governing the use of copyrighted materials is daunting. The information on this site is directed at teaching faculty, students, scientific writers, researchers, and others at MUSC who use copyrighted works. It includes Copyright @ MUSC: Policies, Forms, & Resources, forms, and information about Coursepacks, Plagiarism and How to Cite Sources, releases, Images and text, and print and digital/online resources. Many of the links lead to the excellent copyright Websites of other universities. <http://copyright.library.musc.edu/page.php?id=1314>

**1.2.5. Creating Collaborative Care/Interprofessional Education** - Creating Collaborative Care (C3) is a Quality Enhancement Plan (QEP) for the Medical University of South Carolina that focuses on inter-professional education. [http://academicDepartments.musc.edu/c3/](http://academicdepartments.musc.edu/c3/)

**1.2.6. Faculty teaching awards** (College and University) - In recognition of faculty accomplishments the individual colleges, as well as the university, present annual awards in teaching, research, and service.  These awards are very competitive underscoring the excellence of the faculty with respect to their achievements.  The awards are sponsored by various groups.  The university annual awards include:
•  Developing Scholar Awards
•  Outstanding Clinician Awards
•  Teaching Excellence Awards (Developing Teacher, Educator-Lecturer,

Educator-Mentor)
•  Distinguished Faculty Service Awards

**1.2.7. Library resources** - <http://www.library.musc.edu/>

* 1. Computer labs – 4 computer labs are available for use by faculty for their classes.  The labs host an average of 25 iMac computers that support the use of both Windows and Macintosh operating systems
	2. Learning Commons – An initiative of the MUSC library currently under development designed to provide spaces for study and socialization and access to the latest technologies for teaching and learning.
	3. Center for Academic and Research Computing – Works with faculty and staff across the campus to design, develop and support interactive instructional programs.
	4. Journals The library currently provides access to approximately 17,498 e-journals and 34 current print-only subscriptions <http://muscls.musc.edu/>

**1.2.8. Center for Academic Excellence** - The CAE is dedicated to improving learning and teaching on campus. Health care providers must learn and re-learn in order to adapt their practices to the latest advances in biomedical science. They also must collaborate with colleagues across professions to provide quality care and conduct groundbreaking research. That’s why the CAE provides collaborative learning groups; and the effectiveness of these groups is why a majority of MUSC students choose to participate—in addition to their scheduled class time. Another vital part of the work of the CAE is teaching the material and the strategies necessary for success on national and state licensing board/certifying exams. Under the tutelage of CAE faculty and their fellow students, students approach these rigorous exams with confidence and exceed national performance averages. <http://www.musc.edu/cae/>

**1.2.9. The Writing Center** - The Writing Center faculty members teach students to communicate effectively with their professors, their fellow students, and their patients. <http://www.musc.edu/writingcenter/>

**1.2.10. Enrollment Services** - Enrollment Services oversees student admissions, records and financial aid.   <http://www.musc.edu/em>

**2. State or National Resources**

**2.1. Funding Agencies**

### By going to theMUSC Research and Discovery website (**http://research.musc.edu/researchresources.html**)and clicking on Funding Opportunites under the Office of Research Development**,** information on the following opportunities is available:

### Funding alerts

### Federal and state funding opportunities

### Sponsor opportunities (Corporate and Foundations)

* [**New Investigator Funding Opportunities**](http://research.musc.edu/newinvest.html)

<http://research.musc.edu/newinv_fund.html>

* [**Postdoctoral Funding Opportunities**](http://research.musc.edu/postdoc_fund.html)
* [**Limited Submissions Competitions Opportunities**](http://research.musc.edu/int_deadlines.html)

**2.2. Associations**

* **Association of American Medical Colleges (AAMC)**. The AAMC represents all 133 accredited U.S. medical schools; approximately 400 major teaching hospitals and health systems, including 68 Department of Veterans Affairs medical centers; and nearly 90 academic and scientific societies. Through these institutions and organizations, the AAMC represents 125,000 faculty members, 75,000 medical students, and 106,000 resident physicians. Through its many programs and services, the AAMC strengthens the world's most advanced medical care by supporting the entire spectrum of education, research, and patient care activities conducted by member institutions. <http://www.aamc.org/>
* **Association of Women in Science (AWIS)** is a national advocacy organization championing the interests of women in science across all disciplines and employment sectors. By breaking down barriers and creating opportunities, AWIS strives to ensure that women in these fields can achieve their full potential. <http://www.awis.org/>
* **National Postdoctoral Association**. The NPA provides many resources useful for enriching the research environment, managing a research lab, and expectations of mentors and trainees. MUSC is an affiliate institution which provides membership to all faculty, postdocs, and students. <http://www.nationalpostdoc.org/>

# **Appendix 2. SAMPLE MENTORING PARTNERSHIP AGREEMENT**

We have agreed on the following goals and objectives as the focus of this mentoring relationship:

 -to develop a dynamic reciprocal relationship fostering professional growth

 -to work towards the development of a career development plan

 -to introduce Protégé to best practices in academic medicine

We have discussed the process by which we will work together, develop, and, in that same spirit of partnership, collaborate on the development of a work plan. In order to ensure that our relationship is a mutually rewarding and satisfying experience for both of us, we agree to:

**1. Meet regularly. Our specific schedule of contact and meetings, including additional meetings, is as follows:**

**2. Look for multiple opportunities and experiences to enhance the Protégé’s learning.**

We have identified, and will commit to, the following specific opportunities and venues for learning:

**3. Maintain confidentiality of our relationship.**

Confidentiality for us means that

**4. Honor the ground rules we have developed for the relationship.**

Our ground rules will be:

**5. Provide regular feedback to each other and evaluate progress. We will accomplish this by:**

Mentor’s Signature and Date Protégé’s Signature and Date

**Check box if you are lead mentor [ ]**

Source: Adapted from *The Mentor’s Guide* by Lois J. Zachary. 2000 © by Jossey-Bass, San Francisco, CA.

**Appendix 3. Example of Individual Development Plan (IDP) to be Prepared by Mentee and Reviewed by Mentor**

**Instructions to Mentees:**

Please complete this form every 6 months and give a copy to your career mentor before your mentoring session. Attach an updated CV in the recommended format

**Instructions to Mentors:**

Please review the mentee’s CV and this IDP prior to meeting your mentee.

**Date:**

**Mentor Name:**

**Mentee Name:**

**Time allocation as estimated by Mentee**:

\_\_\_\_\_% Teaching/training/providing mentoring

\_\_\_\_\_% Research

\_\_\_\_\_% Patient Care

\_\_\_\_\_% Administration

\_\_\_\_\_% Other Creative Professional Activity

**How (if at all) would you like to change this time distribution and how could you justify that change?**

**Academic Appointment**

Do you understand the expectations for your career advancement and promotion within the University?

\_\_\_Yes

\_\_\_No

If no, provide questions you have about career advancement and promotion at the University:

**Current Professional Responsibilities**

List your major professional responsibilities and if you anticipate significant changes in

the coming year

**Future Professional Goals**

**Short Term Goals**

List your professional goals for the coming year. Indicate how you will assess if the goal

was accomplished (expected outcome)

1. Goal:

Expected outcome:

2. Goal:

Expected outcome:

3. Goal:

Expected Outcome:

**Long Term Goals**

List your professional goals for the next 3 to 5 years. Indicate how you will assess if the

goal was accomplished.

1. Goal:

Expected outcome:

2. Goal:

Expected outcome:

3. Goal:

Expected Outcome:

**Are you satisfied with your personal-professional balance? If not—what are your**

**plans for modifying how you spend your time?**

Adapted from UCSF Faculty Mentoring Program 16

**Appendix 4. Mentor/Mentee relationship evaluation.**

**Part 1. TO BE COMPLETED BY MENTEE (and shared with Dept. Mentor Champion and Chair).**

**Mentee: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Mentor: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

|  |  |
| --- | --- |
| **ITEM** | **Excellent Fair Poor** |
| **1. The mentor is available on a regular basis**  | **1 2 3 4 5** |
| **2. The mentor helps define goals** | **1 2 3 4 5** |
| **3. The mentor respects the mentee** | **1 2 3 4 5** |
| **4. The mentee respects the mentor** | **1 2 3 4 5** |
| **5. The mentor is a good role model for the mentee** | **1 2 3 4 5** |
| **6. The mentor understands the mentee’s challenges.** | **1 2 3 4 5** |
| **7. The mentor is helpful in guiding the mentee through these challenges**  | **1 2 3 4 5** |
| **8. The mentor provides both support and constructive criticism of the mentee.** | **1 2 3 4 5** |
| **9. The mentee maintains a portfolio of publications, lectures, clinical development activities, faculty/university service for periodic review with mentor** | **1 2 3 4 5** |

**Appendix 4. Mentor/Mentee relationship evaluation.**

**Part 2. TO BE FILLED OUT BY MENTOR (and shared with Dept. Mentor Champion and Chair).**

**Mentee: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Mentor: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Check box if you are lead mentor [ ]**

|  |  |
| --- | --- |
| **ITEM** | **Excellent Fair Poor** |
| **1. The mentee is available on a regular basis**  | **1 2 3 4 5** |
| **2. The mentee has developed a reasonable set of goals** | **1 2 3 4 5** |
| **3. The mentor respects the mentee** | **1 2 3 4 5** |
| **4. The mentee respects the mentor** | **1 2 3 4 5** |
| **5. The mentee understands the requirements, policies, and procedures for promotion and tenure** | **1 2 3 4 5** |
| **6. The mentee understands his / her career challenges**  | **1 2 3 4 5** |
| **7. The mentee has plans to overcome those challenges** | **1 2 3 4 5** |
| **8. The mentee accepts criticism/suggestions from the mentor and reacts appropriately** | **1 2 3 4 5** |

**Appendix 5: Current Members of the Mentor Leadership Council**

**Marc Chimowitz MBChB** – Chair of Council, Director of SCTR KL2 Program, Professor of Neurology, Associate Dean of Faculty Development, College of Medicine

**Heather Shaw Bonilha** **PhD, CCC-SLP**- Assistant Professor of Health Sciences Research, College of Health Professions

**Kathleen Brady** **MD, PhD** – Director of SCTR, Professor and Director, Clinical Neuroscience Division, Associate Dean of Clinical and Translational Research, College of Medicine

**Perry Halushka** **PhD, MD** - Co-director of SCTR, , Professor of Medicine and Pharmacology

**Kathie L. Hermayer** **MD** – Professor of Medicine

**Edward Krug** **PhD** - Assistant Dean for Postdoctoral Affairs, College of Graduate Studies, Associate Professor of Regenerative Medicine and Cell Biology

**Bonnie Martin-Harris** **PhD** - Director (Interim), Division of Communication Sciences, Professor of Otolaryngology

**Mary Mauldin** **Ed. D.** - Associate Professor and Director, Center for Academic and Research Computing; Head, Library Learning Commons

**Jacqueline McGinty, PhD** - Associate Dean, College of Graduate Studies; Professor of Neurosciences

**Joann Sullivan** **PhD** – Director of Office of Research Development, Assistant Dean for Extramural Program Development, College of Graduate Studies