

# APSF/FAER Mentored Research Training Grant (MRTG)

## **OVERVIEW & REQUIREMENTS**

updated as of 11/25/2019

#### UPCOMING APPLICATION CYCLE:

**2020** LOI Deadline: January 1, 2020 Application Deadline: February 15, 2020 Earliest possible funding date: July 1, 2020

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#### IMPORTANT NOTE: Application Instruction Changes or Clarifications from previous versions

The following changes have been made to the APSF/FAER MRTG application instructions and are in effect for the 2020 application cycle. If you have reviewed a previous version of the instructions, please pay special attention to these changes.

- 1. Letter of Intent process has been added. (See page 6)
- 2. \$2,000 of the application budget must be designated for participation in the FAER MRTG Annual Meeting. (See page 5)

## **APSF/FAER Mentored Research Training Grant**

#### **OVERVIEW**

The Anesthesia Patient Safety Foundation (APSF) and the Foundation for Anesthesia Education and Research (FAER) are offering the APSF/FAER Mentored Research Training Grant (MRTG) to develop the next generation of perioperative patient safety scientists. The intention is to fund one APSF/FAER MRTG to the sponsoring institution of a highly promising new perioperative patient safety scientist each year. This grant aims to help anesthesiologists develop the skills and preliminary data they need to become independent investigators in the field of anesthesia patient safety.

The APSF/FAER MRTG is a two-year, \$300,000 primary investigator award (no co-investigators) that provides funding to a single sponsoring institution of an anesthesiologist faculty member who is within 10 years of their first faculty appointment. The funds may be split between the two years as necessary to complete the proposed research, with a minimum of \$100,000 in each year. The APSF/FAER MRTG requires 60 percent unencumbered research and non-clinical career development time during the duration of the award.

#### **AREAS OF RESEARCH**

For the purposes of this grant program, patient safety is defined as the avoidance, prevention and amelioration of adverse outcomes or injuries stemming from health care processes. The ultimate goal is that no patient is harmed in a preventable fashion by the medical care they receive. Patient safety research studies are scholarly endeavors that seek to understand the factors that cause preventable harm to patients or that aim to study interventions to reduce that harm.

Patient safety research includes the basic science of safety (e.g., fundamental understanding of how and why clinicians think and behave within complex healthcare systems, novel solutions to pharmacologic, procedural, or systems-based causes of patient injury), prospective and retrospective observational studies, and interventional (or implementation) studies. Patient safety research can be conducted in the laboratory or in real or simulated care environments. Depending on the research objectives, the project may be hypothesis-generating or hypothesis-testing. Similarly, either qualitative or quantitative methods may be used but the choice must be justified and conducted in a rigorous state-of-the-art manner.

APSF/FAER are interested in funding patient safety research directly relevant to the perioperative care of patients, as well as chronic pain and critical care medicine. While the PI of the proposal must be a board–certified anesthesiologist, patient safety research is usually a multi-disciplinary endeavor and this should be reflected in the proposal and in the composition of the mentorship committee, as appropriate. A senior, experienced patient safety research mentor and a rigorous career development plan will be essential to a successful application.

For the APSF/FAER MRTG, the following types of research will **not** be considered:

- Proposals involving research on cells, tissues or animals.
- Proposals that do not have a clear and direct link to patient safety as defined above.
- Proposals involving educational initiatives except when education or training are but one component of a broader (e.g., multimodal) intervention intended to improve patient safety in an operational environment.
- Proposals for traditional quality improvement activities unless clearly patient safety focused and structured as
  rigorous scientific experiments.
- Studies using *only* retrospective data that do not have a clear and compelling link to front-line patient safety practices.

Note that data science studies which, for example, study large datasets to detect and generate hypotheses about the etiology of rare patient safety events, or those that use retrospective data to create decision support that is then evaluated for its ability to change clinician behavior to avoid unsafe conditions or errors **will** be considered.

#### ELIGIBILITY

At the time of the award, applicants must meet all of the following eligibility requirements:

- Be a U.S. citizen, permanent U.S. resident, or holder of H-1 visa with minimum of three years remaining. (A J-1 visa holder does not qualify.)
- Be a graduate physician with an unexpired, permanent, unconditional and unrestricted license to practice medicine or osteopathy in at least one state or jurisdiction of the U. S.\*
- Be certified by the American Board of Anesthesiology or in the examination system\*

\*APSF/FAER will consider applicants with equivalent training or acceptance into ABA Alternative Entry Path (AEP). The acceptance letter must be provided to APSF/FAER at the time of grant application submission.

- Be an active member of the American Society of Anesthesiologists (ASA).
- Hold or be eligible for a full-time faculty position in a Department of Anesthesiology (primary appointments only) at a U.S. academic institution
- Have a documented interest in and aptitude for a career as a Patient Safety Investigator. Prior authorship of peerreviewed journal publications relevant to the field will be considered as one form of evidence toward this requirement.
- Have not previously received a federal or non-profit foundation career development award (equivalent or greater value than this grant) or a major investigator-initiated research grant (R21, R01 or equivalent). Recipients of this grant may not simultaneously be receiving support from a federal source for similar patient safety research. (Should the investigator receive such an award during the course of this grant's funding, the remainder of this grant's funding will be cancelled, and unused funds returned.)

#### **Mentor Requirements**

- Commitment to mentor the applicant with a minimum of 5% dedicated effort.
- Prior evidence of successful mentorship of doctoral students, post-doctoral fellows or junior faculty.
- Tangible evidence of substantial experience as a patient safety (or related field) scientist including peer-reviewed extramural funding and peer-reviewed publications.
- Hold an accredited doctoral level degree
- Hold a full-time faculty appointment (preferably tenure track) in an accredited U.S. academic institution.

#### **Departmental and Institutional Requirements**

- Commitment to provide the Applicant with at least 60% unencumbered research and non-clinical career development time during the duration of the award.
- Commitment to provide the Mentor with at least 5% unencumbered time to mentor the Applicant.
- Unencumbered provision of the facilities and resources required for successful completion of the Applicant's proposed Career Development Plan and Research Project, as specified in the Application and Budget.

Recipients of this award agree to present their work at the first ASA annual meeting to be held after the conclusion of their grant, if invited. The Department Chair must commit to provide recipients with the time to present their research, if accepted for this presentation. Grant awardees will be reimbursed for travel costs up to \$2,000 to attend and present at the ASA annual meeting, outside of the grant funding. Grant awardees may also be invited by APSF or FAER to present their work at other forums.

#### **RESEARCH TIME**

During the two years of APSF/FAER-funded research, the recipient must devote a minimum commitment equivalent
of 60 percent of the PI's full-time appointment — to research and career development activities directly related to this
APSF/FAER-funded project.

#### FUNDING

- The total funding amount for the APSF/FAER Mentored Research Training Grant is \$300,000.
- Year one will be paid between \$100,000 to \$200,000. Year two will be paid between \$100,000 to \$200,000, but not to
  exceed \$300,000 total over the two-year grant period. Both years will be paid out at \$150,000 per year unless
  otherwise requested.
- \$2,000 of the application budget must be designated for participation in the FAER MRTG Annual Meeting. Information
  on the FAER MRTG Annual Meeting and related expenses will be shared with APSF/FAER MRTG award recipients
  prior to each meeting.
- Yearly grant payments are made to the institution, not directly to the award recipient.
- Award renewal for the second year is contingent on the favorable review of the interim report.

#### FAER MRTG ANNUAL MEETING

Grant recipients of the APSF/FAER MRTG award will be invited to participate in the FAER MRTG Annual Meeting, which may involve poster presentations and sessions on career development. This meeting is highly encouraged as it aims to create a community of early-stage investigators and is a career development opportunity. \$2,000 of the application budget must be designated for this purpose. Funds in this category must be spent on meeting related expenses, guidelines on funds and any restrictions will be provided within the invitation from FAER staff. Meeting specifics (dates, location, sessions etc.) will be shared with grantees as they become available.

## **1. Preparing the APSF/FAER MRTG Grant Letter of Intent**

To apply, applicants will first submit a three-page letter of intent (LOI), with the understanding that full research proposal may be developed if selected as one of the finalists.

The format should be a one-page cover letter and a two-page project description.

Letters of intent for the APSF/FAER MRTG award will be accepted from December 1, 2019 through January 1, 2020 (one month). LOI's must be submitted through FAER's <u>online grant portal</u>.

LOI's will be reviewed by members of the APSF/FAER MRTG Grant Review Committee. Applicants will be notified by FAER staff after a review of the LOI if they have been selected to submit a full research application.

#### The LOI should be organized as follows:

- **COVER LETTER** On letterhead of the institution that is sponsoring the investigation.
  - Title and Principal Investigator (PI): Include title of the project, the credentials, title, office address, and email address of the PI, and the PI's primary institutional affiliation. List only one person as the PI.
  - Indicate if there are other participating institutions, designate the time period for which funds will be requested for, and identify the members of the research team including any co-investigators and mentors.
- **PROJECT DESCRIPTION** (maximum 2 pages) The project description must be no longer than two singlesided pages, single-spaced, with a 12-pt. font size and with 1-inch margins on all sides.
  - A descriptive title of the proposed research.
  - Executive Summary: Summarize the project. Limit to one paragraph.
  - Background: Describe the problem, existing knowledge about it, its importance to the APSF/FAER funding priorities. Limit to 1 paragraph.
  - Specific Aims: Describe what you are proposing to accomplish toward addressing the problem, i.e., what are your goals and objectives? What hypothesis will be tested?
  - Methods: Describe the methods that will be employed to study the primary hypothesis. Be as specific as
    possible without unnecessary detail. This section is important and should be detailed enough to explain
    the methods that are being applied for analysis of the primary endpoint.
  - Impact: Describe how you expect the results will be used and what impact could they have in addressing the problem.

## 2. Preparing the APSF/FAER MRTG Grant Application

If an applicant is selected to submit a full research application following the LOI process, they will be notified by FAER. If selected to submit a complete research application, the following instructions and guidelines should be used to complete the application.

NOTE: Applicants must be selected during the LOI process in order to submit an application.

#### A. COVER PAGE

The cover page should include general application information. It must include the following sections.

- Title of Research Project
- Applicant (Principal Investigator) Information: Name of applicant including academic degrees, office address, phone number, fax number and e-mail address.
- Mentor Information: Names and affiliations of the applicant's mentor
- Other Investigators or Consultants: Names and affiliations of any other investigators or consultants
- Department Chair Information: Name, office address, and phone number of departmental chairperson

- Institution Information: Sponsoring institution and name, office address, phone number and e-mail address of the responsible institutional financial officer
- **Project Dates:** Start and end dates of proposed project

#### B. PROJECT ABSTRACT (≤100 words)

The Abstract should explain the proposed research study in language understandable to the average clinical anesthesiologist. The abstract should state the broad long-term objectives and specific aims of the project, its relationship to anesthesiology, as well as the research design and methods. The abstract should be a succinct and accurate description of the proposed work that can be understood when read apart from the application. The abstract will be used primarily for promotional purposes.

#### C. APPLICANT CAREER PLAN SUMMARY (≤250 words)

The Career Plan Summary should explain the applicant's current situation, proposed career development activities, and future career plans in language understandable to the average clinical anesthesiologist. The Career Plan Summary must include at least the following elements:

- Applicant's preferred full name and degrees.
- The submitting academic institution (and medical center if different).
- The preferred full name, degrees, and primary affiliations of the Applicant's mentor
- The title of the research project and a summary sentence about the proposed project.
- The patient safety topic area(s) and research methods that will be the focus of the Applicant's career.
- The Applicant's long-term goals for improving perioperative patient safety.

#### D. CANDIDATE BACKGROUND (≤3 pages)

The candidate background should include the following elements:

- Career Goals and Objectives (include specific plans for post-award research activities, extra-mural funding and further career development)
- Career Development/Training Activities During Award Period
- Training in the Responsible Conduct of Research
- Timeline of Proposed Activities

#### E. RESEARCH PLAN (≤8 pages)

The research plan is the core of the application. Particularly, because of page limitations, the research plan should be developed in conjunction with the applicant's mentor(s). It must include the following sections. The research plan should include the following elements:

- **Significance:** Why is the proposed research important? How will it advance our understanding of and improvements in patient safety? How will it advance the Applicant's long-term goals for improving patient safety? This section typically includes evidence that the Applicant has a strong fundamental understanding of the relevant patient safety knowledge and evidence.
- Innovation
- Approach: The Approach must include the following sections presented in the following order:

- Hypothesis and Specific Aims: After a brief introduction, this section must articulate the Aims of the study and the hypotheses to be tested. All hypotheses must be stated in a way that they can be tested with empiric data. Note that some types of patient safety research studies may appropriately be hypothesis generating rather than hypothesis testing. In this circumstance, Specific Aims and associated Research Questions would be included in this section.
- Detailed Proposed Methods: This section must include a detailed description of the proposed experimental design, the numbers and nature of study participants, the procedures to be employed, the independent variables to be manipulated, the dependent variables to be measured, and any covariates that will be included. The description should include a rationale for the choice of each dependent variable.
- **Data Analysis Plan and Sample Size Justification:** This section must include a detailed analytical plan and a rigorous justification for the proposed sample size with sufficient detail to convince the reviewers of a low likelihood of either Type 1 or Type 2 errors. In addition to total sample size, the plan should include a statement of the number of eligible subjects in the study site's patient population and the feasibility of adequate recruitment during the study period. It would be prudent to provide evidence of the initial and planned ongoing involvement of an experienced biostatistician. Note that investigators proposing use of qualitative or mixed methods will be held to equivalently high standards of rigor.
- Interpretation of Results: This section should describe how the results will address the stated hypotheses, how alternative findings will be interpreted, what the investigator will do if the findings do not confirm the original hypotheses (this is especially important in multi-part studies or aims that depend on each other), and the patient safety significance of the expected results.
- **Study Limitations:** This critical section must provide a comprehensive and realistic description of the study limitations and the methods by which the investigators have (or will) mitigate these limitations.
- Future Directions: This brief section should describe what future studies are anticipated to flow from APSF's investment in the conduct of the proposed study and why such future studies are important to long-term improvements in patient safety. Do not duplicate content in the Significance section above.
- Project Management and Detailed Timeline: This section must describe how the PI will organize, plan, and oversee the proposed research. When a team of scientists will be involved, the Project Management plan should describe how the team will communicate and interact. Finally, this section should describe how the team will assure that the project is completed on time and within the proposed budget. The project timeline should be presented in a Gantt chart that includes specific detailed milestones and deliverables.

#### F. CITED REFERENCES (≤2 pages)

This section should provide evidence that the Applicant is very familiar with the most current relevant literature and will take a rigorous and scholarly approach to the proposed research. Please cite only the most relevant and important literature. References should be cited in the order in which they appear in the Research Plan and should use the format approved by the journal *Anesthesiology*.

#### G. MENTOR'S LETTER (≤4 pages)

- The mentor's letter may be the most critical part of the application. The letter must be a PDF scan of a signed original on institutional stationary. The mentor's letter must contain all of the following elements:
- Training and Research Career Development Plan
- Mentoring Plan
- Progress Assessment
- Anticipated Sources of Research Project Support
- Nature and Extent of Supervision and Mentoring

- Anticipated Non-Award Activities
- Plan for Transition to Independence
- Mentor Qualifications
- Mentoring History

#### H. FACILITIES AND RESOURCES (≤2 pages)

This section describes the readily available relevant institutional facilities and resources that will support the Applicant's career development and proposed research project. Please provide evidence (i.e., specific examples) of how the institution has invested in and supported prior patient safety research projects that have led to peer-reviewed journal publications. The Review Committee considers the institutional infrastructure very important to the success of new patient safety investigators.

#### I. HUMAN SUBJECTS (≤3 pages)

This section should succinctly address all of the elements typically found in an institutional human subjects committee (or IRB) application.

Provide a letter of approval from the appropriate institutional human or animal use review committee.

If this study does not require this approval, or if the application is submitted before approval is obtained, provide a letter of explanation. Notification of institutional approval must be received in the FAER office prior to any award payment being made.

#### J. DATA MANAGEMENT PLAN (no page limit)

Describe how your data will be collected, handled, stored and analyzed with respect to HIPPA compliance, participant and patient privacy, confidentiality, and data security.

**IMPORTANT NOTE:** By the time of application review, the Applicant must provide APSF with evidence that they have undergone and are current with their institution's approved human subjects/responsible conduct of research training.

**FDA and Other Regulatory Compliance (if applicable).** If medical devices are to be used on patients in the proposed study in ways that are not currently FDA-approved, the investigators must confer with their IRB regarding the need for an IDE. Similarly, if drugs are to be used in the proposed study in ways that are not currently FDA-approved, the investigators must confer with their IRB regarding the need for an IND. The relevant issues should be addressed in this section.

#### K. BIOSKETCH (≤4 pages each)

**Applicant and Mentor:** Use the latest version of the current NIH biosketch template. (The template is available at FAER.org/research-grants/apply). Submit one biosketch for the Applicant and one for each mentor.

For the applicant and the mentor(s), the personal statement is an important part of the biosketch. Information provided within the biosketch personal statement is considered during grant review. The personal statement should be tailored to the specific grant application and used to convey information about your relevant qualifications and experience related to your role in the grant. The personal statement is most often written in the first person. For applicants, it should demonstrate your understanding of the project and how it will benefit your career, and for mentors, it should demonstrate your understanding of the project and how it will benefit your mentee's career.

#### L. BUDGET (no page limit)

As a part of the APSF/FAER MRTG grant application, the applicant must provide a detailed budget and justification of expenses using the APSF/FAER MRTG budget template. (Budget templates are available at: <a href="http://www.asahg.org/faer/researchandeducation/instructionsforms">http://www.asahg.org/faer/researchandeducation/instructionsforms</a>)

- Budget for each individual year and in total.
- Itemized budget justification. The application should provide sufficient explanation and rationale for each budget item to fully justify the proposed expenditure. Please explain all changes in item-level budgeted amounts between Years 1 and 2.
- Budgeting limitations. The following items can NOT be paid for from funds provided by this grant:
  - o Construction, Renovations, or Furniture.
  - Capital equipment exceeding \$10,000.
  - o Applicant coursework, training or career development materials that exceed \$10,000.
  - o Any item considered an Indirect Cost by any Federal granting agency.

#### **<u>IMPORTANT NOTE</u>**: No indirect cost will be covered by this grant.

#### **IMPORTANT NOTE**: Violations of any of this grant's financial stipulations will be grounds for

#### immediate revocation of the award and full repayment of the total award by the sponsoring

#### institution.

#### Additional Budget Guidelines

CATEGORY	REQUIREMENTS		
Salary	<ul> <li>The total salary for the applicant and all salary sources must be specified in the budget.</li> </ul>		
	<ul> <li>Salary support for the mentor(s) is not allowed.</li> </ul>		
	Research staff salary support is allowed with appropriate justification.		
Equipment	<ul> <li>This grant is to be used primarily for ongoing research expenses. Major equipment purchases are considered to be the responsibility of the applicant's Department. The award may be used for minor equipment expenses related to the research project, with sufficient justification, at the discretion of APSF/FAER.(Major equipment is defined as an article of tangible nonexpendable property that has a useful life of more than 1 year and an acquisition cost that equals or exceeds \$10,000.)</li> </ul>		
	<ul> <li>Expenses for computers not directly justified by the research are not allowed.</li> </ul>		
Supplies	The award may be used for supply expenses related to the research project.		
Travel	<ul> <li>\$2,000 of the application budget must be designated for participation in the FAER MRTG Annual Meeting. No other travel is allowed in the budget.</li> </ul>		
Tuition	<ul> <li>APSF/FAER funds are intended to be directed primarily to research costs. However, requests for tuition support will be considered on an individual basis.</li> <li>In the event that tuition or course fees are proposed in a grant budget, the applicant should describe in detail:         <ul> <li>How the activity will specifically contribute to the success of the research project;</li> <li>The need for external rather than institutional funding.</li> </ul> </li> </ul>		
Other	<ul> <li>Incremental patient costs directly related to the study are allowed.</li> </ul>		
Expenses	Indirect costs are not allowed.		
	Secretarial or administrative costs are not allowed.		

Alterations and renovations are not allowed.

#### M. CHAIR LETTER CONTAINING AFFIRMATIONS (≤3 pages)

This letter must be from the Chair of the sponsoring institution's Department of Anesthesiology. The letter must be a PDF scan of a signed original on institutional stationary. The letter must include the following elements:

- 1. Application's significance to Anesthesiology;
- 2. Guaranteed regular (preferably tenure) track faculty appointment of the Applicant by the start of the second year of funding;
- 3. Departmental commitment to provide to the Applicant 60% research and academic time for the two-year project duration;
- 4. Departmental commitment to provide a minimum of 5% dedicated effort of the designated mentor;
- 5. Resource availability and commitment;
- 6. Internal peer review completed;
- 7. Management of awarded funds;
  - a. Commitment to provide specified facilities and resources
  - b. Return of unused funds to APSF/FAER.

#### NOTE: <u>No</u> Appendices or supplemental material will be accepted.

#### N. RESUBMISSION STATEMENT (≤2 pages)

If you have previously submitted any research proposal to APSF or FAER, you must include a resubmission statement within your application. If you previously received an APSF or FAER grant, indicate what type of grant and the years of funding.

If you are submitting a revised application, the resubmission statement should provide a summary of the differences between this and the previous application. It should address the critiques of the original application point by point.

Applicants may submit up to two resubmissions of a revised research grant proposal.

If you are reapplying to APSF or FAER with a completely different research protocol, the resubmission statement should indicate how and why this project differs from the previous application.

#### O. CAREER DEVELOPMENT PLAN (≤2 pages)

The career development plan should be written by the applicant — in the applicant's voice — with input from the primary research mentor or mentorship team.

Within the career development plan, the applicant should describe their motivation and commitment to a research career and should outline short-term and long-term career objectives. The career development plan should show clearly how the proposed research will prepare the applicant for an independent career as a physician-scientist. The plan should describe those specific elements planned for the training period, including formal or didactic training through courses, classwork, and participation in institutional research training (*e.g.* CTSA research training program).

To prepare to write the career development plan, the applicant should conduct a realistic self-assessment to identify research abilities and skills, as well as strengths and areas that need development. Along with the mentor(s), the applicant should discuss current skills and strengths and compare them with those needed for the research career choice.

The career development plan should outline the outcomes of the self-assessment and should define the approaches that the applicant will use to obtain the specific skills and strengths (*e.g.*, courses, technical skills, teaching, supervision) together with anticipated time frames.

### P. ACCEPTANCE OF CONDITIONS FORM (≤1 page)

As a part of the APSF/FAER MRTG grant application, the applicant must provide a signed *APSF/FAER Acceptance of Conditions* form. **This form must be signed by the applicant, mentor, and department chair.** (Acceptance forms are available at: <u>http://www.asahq.org/faer/researchandeducation/instructionsforms</u>)

## Submission of APSF/FAER MRTG Application

#### **DATES & DEADLINES**

#### 2020 CYCLE:

Letter of intent opens December 1, 2019
Letter of intent due January 1, 2020
Applications open January 15, 2020
Applications due February 15, 2020
Award notifications made in May 2020
Project start date July 1, 2020

#### **GRANT INFORMATION**

APSF/FAER MRTG LOI and application information, forms, and templates can be found at <u>https://www.asahq.org/faer/researchandeducation/apsffaergrant</u>.

#### **ONLINE GRANT PORTAL**

The APSF/FAER MRTG LOI and application can be submitted through the FAER portal at <a href="https://www.grantinterface.com/Home/Logon?urlkey=faer">https://www.grantinterface.com/Home/Logon?urlkey=faer</a>.

#### FORMATTING INSTRUCTIONS

The candidate background, research plan, cited references, and career development plan, as well as any supporting documents, should meet the following formatting specifications:

- Single-spaced (6 lines per inch)
- Arial or Helvetica font, size 11 pt.
  - o 9 pt. font is acceptable for figures, graphs, diagrams, charts, tables, figure legends and footnotes
- Margins of 0.5" right and left, and 1.0" top and bottom
- Type density, including characters and spaces, must be no more than 15 characters per inch

#### Character Count, FORMAT OF Page Limit, File Size INSTRUCTIONS SUBMISSION Limit Eligibility Respond to online eligibility questions to access the online Online Q&A Various field limits application. See page 3 for eligibility requirements. fields Cover Page Provide project and contact information. See page 6 for Online text Various text limits requirements. fields **Project Abstract** See page 6 for instructions on what should be included. Online text 1000 characters field maximum Applicant Career Plan See page 6 for instructions and tips on what should be included. Online text 2000 characters Summary field maximum **Candidate Background** See page 6 for instructions on what should be included. File Upload 3 pages, singlespaced, Arial or Helvetica, 11 pt. or larger 1 MB

#### **MATERIALS CHECKLIST**

Research plan	See page 7 for instructions on what should be included.	File upload	8 pages, single- spaced, Arial or Helvetica, 11 pt. or larger
			6 MBs
Cited References	See page 8 for instructions on what should be included.	File upload	2 pages, single- spaced, Arial or Helvetica, 11 pt. or larger
			1 MBs
Mentor's Letter	Written by the mentor. See page 8 for instructions on what must be included.	File upload	4 pages
			1 MB
Facilities and Resources	See page 8 for instructions on what should be included.	File upload	2 pages
			1 MBs
Human Subjects	Provide a letter of approval from the appropriate institutional human or animal use review committee. OR Provide a letter of explanation of	File upload	3 pages
	the status of IRB /IACUC approval.		1 MB
Data Management Plan	See page 8 for instructions on what should be included.	File upload	No page limits
			1 MB
Biosketch	See page 9 for instructions on what should be included.	File uploads	4 pages each
			1 MB per file
Budget	Follow the budget guidelines outlined on page 11.	File upload	No page limits
			1 MB
Chair Letter containing Affirmations	See page 10 for instructions	File uploads	3 pages
			1 MB
Resubmission Statement	If you have previously submitted any project to APSF or FAER, a resubmission statement is required. See page 10 for instructions on what should be included in the resubmission statement.	Online text field	1 page
			1 MB
Career Development Plan	Written by the applicant. See page 11 for instructions on what should be included.	File upload	2 pages, single- spaced, Arial or Helvetica, 11 pt. or larger
			1 MBs
Acceptance of conditions	Applicant, research mentors and department chair must sign the acceptance form provided on FAER.org.	File upload	1 MBs 1 page

#### **EVALUATION OF APPLICATIONS AND AWARD SELECTION**

Members of the APSF/FAER MRTG Grant Review Committee will evaluate the complete grant applications for scientific merit using National Institutes of Health criteria and methods. Written critiques will be shared with all applicants.

#### **REPORTING AND POST-AWARD REQUIREMENTS**

#### **Interim Report**

In order to receive the second year of grant funding, all recipients must submit an interim report to APSF and FAER. This report is due 45 days prior to the completion of year one of the grant (e.g. May 15 for a June 30 completion date, and November 16 for a December 31 completion date).

The Interim Report should be no longer than four pages and should:

- Provide an explanation for any deviation from the original specific aims
- Summarize studies performed, the outcomes of the studies and their relationship to the specific aims
- Summarize accomplishments to date, providing a concise account of the course of the study and other relevant information that illustrates the status of the grant
- List *all* publications or manuscripts that have been published or are in preparation (APSF/FAER-related and others)
- List all presentations at scientific meetings relevant to the grant
- Provide a complete list of active and pending research support for the years the APSF/FAER grant is in effect
- Provide a financial report that summarizes year-one expenditures and the amount of funding requested to be carried over to year two. Also report any changes in the recipient's extramural funding.
- Reaffirm commitments by the recipient, research mentor(s) and department chair.

#### **Final Report**

All APSF/FAER MRTG recipients must submit a final report to APSF and FAER. This report is due 30 days after the completion of the grant.

Elements of the final report include:

- A report, written by the recipient with the mentor's guidance that describes accomplishments to date and the final status of the project. The report should:
  - o Outline outcomes of the specific aims and goals of the research project
  - Include a list of publication(s) resulting from the APSF/FAER-funded research project, as well as a list of subsequent research grant applications that are either in the review process or have been funded
  - Summarize the progress made by the recipient in terms of career development and research accomplishments
- A detailed final financial report from the institution's Office of Sponsored Programs that summarizes all
  expenditures and notes any unused funds that should be returned to APSF and FAER.