

Research Grant Overview & Requirements

Overview

The Foundation for Anesthesia Education and Research provides grant funding for anesthesiologists to train in basic science, clinical and translational research. These grants are designed to create opportunities for anesthesiologists to excel in an exceedingly competitive environment.

The FAER grant opportunities are outlined in the table below and in the following pages. Information on eligibility requirements, funding and reporting is included in this document. In addition, application instructions are available on page 7.

Grant Opportunities

PROGRAM	Mentored Research Training Grants		Research Fellowship Grant	Research in Education Grant
CATEGORY	Mentored Research Training Grant-Basic Science (MRTG-BS)	Mentored Research Training Grant-Clinical and Translational (MRTG-CT)	Research Fellowship Grant (RFG)	Research in Education Grant (REG)
PURPOSE	Allow applicant to become independent investigator.	Allow applicant to become independent investigator.	Provide significant training in research techniques and scientific methods.	Improve quality and productivity of education and research in anesthesiology.
FOR WHOM	Faculty member who completed residency or fellowship no more than 10 years ago.	Faculty member who completed residency or fellowship no more than 10 years ago.	Anesthesiology resident after CA-1 year.	Junior or senior faculty.
PERCENT RESEARCH TIME	75%	75%	80%	40%
DURATION	2 Years	2 Years	1 Year	2 Years
AMOUNT	Year 1: \$75,000 Year 2: \$100,000	Year 1: \$75,000 Year 2: \$100,000	Year 1: \$75,000	Year 1: \$50,000 Year 2: \$50,000

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Grant Descriptions

Mentored Research Training Grant - Basic Science (MRTG-BS)

The two-year MRTG-BS provides funding for basic science research. The first year is funded up to \$75,000, and the second year is funded up to \$100,000. Individuals who hold a faculty appointment in anesthesiology (instructor, assistant or associate professor, for example) and are, in general, within 10 years of having completed an anesthesiology residency or fellowship program are eligible to apply.

Applicants must be guaranteed 75% protected non-clinical time for research, which may include research related to but not specifically for the project being funded. The research mentor must have a minimum of 40% non-clinical academic time devoted to research activities during the two-year duration of the grant. Together, the applicant and the mentor must provide a detailed mentoring and career development plan as a part of the MRTG-BS application.

Mentored Research Training Grant - Clinical and Translational (MRTG-CT)

The two-year MRTG-CT provides funding for basic science research. The first year is funded up to \$75,000, and the second year is funded up to \$100,000. Individuals who hold a faculty appointment in anesthesiology (instructor, assistant or associate professor, for example) and are, in general, within 10 years of having completed an anesthesiology residency or fellowship program are eligible to apply.

Applicants must be guaranteed 75% protected non-clinical time for research, which may include research related to but not specifically for the project being funded. The research mentor must have a minimum of 40% non-clinical academic time devoted to research activities during the two-year duration of the grant. Together, the applicant and the mentor must provide a detailed mentoring and career development plan as a part of the MRTG-CT application.

Research Fellowship Grant (RFG)

A Research Fellowship Grant (RFG) provides one year of funding up to \$75,000 to individuals in ACGME-approved anesthesiology residency programs.

Before beginning FAER-sponsored research, recipients must have completed at least 6 months of research as a part of their residency program (CBY – CA3 years). This work should be consistent with ABA templates for research. The 12 months of FAER-sponsored research should follow the 6 months of research during residency, for a total of 18 months of research experience in the CA1 - CA4 years). Alternatively, the 12 months of FAER-sponsored research may directly precede or follow a one-year clinical fellowship sponsored by an ACGME-approved residency program. Please do not hesitate to contact the FAER office to discuss your proposed research experience timeline.

Applicants must identify their research mentor, who is required to provide written commitment to strong, direct involvement in all research activity. During the 12 months of FAER-sponsored research, recipients must spend a minimum of 80% of their time in research related to but not specifically on the FAER-funded project.

Research in Education Grant (REG)

The two-year Research in Education Grant provides funding to individuals who have completed their clinical anesthesia training and have academic faculty appointments. Each of the two years is funded up to \$50,000. The REG is intended to stimulate career development for anesthesiologists interested in researching the concepts, methods and techniques of education in anesthesiology in all its forms. This includes novel approaches to educating medical students, residents, fellows and practicing physicians.

Junior and senior faculty members may apply. Applicants must identify a mentor with expertise in education. Applicants must be guaranteed a minimum of 40% protected non-clinical time for research related to this education project. Applications may be submitted for a second two-year award, which will be reviewed competitively with other applications.

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Submission Deadlines

All applications must be submitted by February 15, 2012. More than two resubmissions of the same grant are not permitted.

Applicant Eligibility Requirements

General Eligibility Requirements (See also specific grant requirements)

- U.S. citizen, permanent U.S. resident, or holder of H-1 or O-1 visa with minimum of three years remaining.
- Active or resident member of American Society of Anesthesiologists.
- MRTG/REG: The applicant must be a graduate physician who holds an unexpired, permanent, unconditional and unrestricted license to practice medicine or osteopathy in at least one state or jurisdiction of the United States and has completed an ACGME-accredited anesthesiology residency program by the time of the grant award, and is certified by the American Board of Anesthesiology or is in the examination system. The FAER Grant Management Committee will consider applicants with equivalent training or certification on a case-by-case basis. The candidate must provide detailed supporting information for review.
- RFG: A graduate physician who is enrolled in an ACGME-approved training program in anesthesiology or is accepted into a clinical fellowship program sponsored by an ACGME-approved training program in anesthesiology. After completion of residency, recipients must notify FAER that they meet the licensing requirements in their state.

Mentored Research Training Grant Requirements

- At the time a Mentored Research Training Grant receives funding, the applicant must be no more than 10 years after completion of residency or fellowship training.
- The MRTG is not intended for investigators who are or have been recipients of significant extramural funding (e.g., R-awards, K23, K O8, K12 and KL2) and is not intended for established investigators changing areas of interest.
- The anesthesiology department chair must:
 - Guarantee that a minimum of 75% of the applicant's professional time and effort will be available for research related to but not specifically intended for this project.
 - State that the applicant will have an academic faculty appointment for the duration of the grant.
 - Assure availability of technical support, space and facilities for the proposed research.
 - Assure responsible administration of funds with annual reporting of their disbursement and refunding of unused funds to FAER.
- An experienced investigator must be identified as the research mentor, have a faculty appointment at the associate professor level or above and make a written commitment to continuous, direct supervision of the applicant in developing research expertise and achieving the goals of the research proposal. The research mentor is not required to have a primary appointment in anesthesiology.

Research Fellowship Grant Requirements

- At the time a Research Fellowship Grant receives funding, the applicant must be a graduate physician (e.g., M.D. or D.O. degree) enrolled in an ACGME-approved training program in Anesthesiology or accepted into a clinical fellowship program sponsored by an ACGME-approved training program in anesthesiology.
- The anesthesiology department chair must:
 - Verify that the applicant is in good standing in the residency training program or has been accepted into a clinical fellowship program sponsored by the training program.

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- Approve the applicant's proposal for research training, and, if applicable, state that this proposal has been approved by the ABA.
- Guarantee that 80% of the applicant's professional time and effort will be devoted to research related to this project. The remaining 20% may be spent in clinical anesthesia practice. This clinical activity must not exceed a single 10-hour daytime commitment per week. No night, weekend or holiday on-call activity is allowed.
- Assure availability of technical support, space and facilities for the proposed research.
- Assure responsible administration of funds with annual reporting of their disbursement and refunding of unused funds to FAER.
- Assure that, prior to the start date of this grant, the recipient has completed at least 6 months of research as part of the residency program continuum (CA1 – CA4), or that this research grant is in conjunction with a one-year clinical fellowship.
- The applicant must identify an experienced investigator as the research mentor, who is required to make a written commitment to continuous, direct supervision of the applicant in developing research expertise and achieving the goals of the research proposal.
- The career development plan is an important part of this application and should be carefully described. If the fellowship is in conjunction with a clinical fellowship, a summary of the clinical fellowship experience and the connection between the clinical experience and the research experience must be provided.
- Applications by investigators who have received previous extramural funding (e.g., as part of an M.D.-Ph.D. program) are discouraged.

Research in Education Grant Requirements

- The Research in Education Grant is available for faculty of all ranks.
- The applicant must be a graduate physician who holds an unexpired, permanent, unconditional and unrestricted license to practice medicine or osteopathy in at least one state or jurisdiction of the United States and has completed an ACGME-accredited anesthesiology residency program by the time of the grant award and is certified by the American Board of Anesthesiology or in the examination system. The FAER Grant Management Committee will consider applicants with equivalent training or certification on a case-by-case basis. The candidate must provide detailed supporting information for review.
- The anesthesiology department chair must:
 - Guarantee that a minimum of 40% of the applicant's professional time will be available for research related to this education project.
 - State that the applicant will have an academic faculty appointment for the duration of the grant.
 - Assure availability of technical support, space and facilities for the proposed research.
 - Assure responsible administration of funds with annual reporting of their disbursement and refunding of unused funds to FAER.
- The applicant must identify an experienced medical educator, at the associate professor level or above, as the education research mentor. The mentor is required to make a written commitment to continuous, direct supervision of the applicant in developing research expertise and achieving the goals of the research proposal. The education research mentor is not required to have a primary appointment in anesthesiology, but should have demonstrated expertise in medical education.

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Funding

- Award payment:
 - MRTG: The award is \$75,000 for the first year and \$100,000 for the second year, paid to the institution in quarterly installments. Renewal for the second year is contingent on the FAER Board's favorable review of the interim report specified below.
 - RFG: The award is \$75,000 for one year, paid to the institution in quarterly installments. When 12 months of funded research is spread over a period greater than one year, payments will be made at intervals that correspond to the equivalent amount of research time. The department chair must submit documentation that the 6 months of research as part of the residency program continuum has been completed prior to the start of FAER funding.
 - REG: The award is \$50,000 for each of the two years of the grant, paid to the institution in quarterly installments. Renewal for the second year is contingent on the FAER Board's favorable review of the interim report specified below.
- The applicant is required to:
 - * Submit a realistic budget for funding the entire research proposal.
 - * Specify the intended use of the FAER award.
 - * Identify any additional sources of funding required for project completion.
 - * Identify all extramural funds requested or currently available to the applicant (for this project or others) in the application. The overlap between such requested funds and funds requested from FAER must be detailed in the grant application. If such support is obtained during the grant year(s), the recipient must notify FAER immediately.
- The award will be made to an institution on behalf of the recipient. Awards cannot be transferred to another individual. Transfer to another institution can be made only in exceptional circumstance and only with prior permission from FAER.
- The award may be used for salary, or it may be divided among salary, supplies, equipment and services specifically related to the proposed research project.
- The total salary for the applicant and all salary sources must be specified in the grant application.
- The following costs are not allowed: indirect costs, computers not directly justified by the research, travel, secretarial or administrative costs, and alterations and renovations.
- Incremental patient costs directly related to the study are allowed for clinical research.
- With permission from FAER, unexpended funds from year one may be carried over to year two (MRTG and REG only).
- Funds may be re-allocated among the budgeted categories with FAER's permission.
- The award for the first year can begin as early as July 1.
- FAER expects the recipient to complete his or her research within the time frame designated at the time of the award. If the recipient is unable to complete the research during the term of the grant, he or she should submit in writing a letter to FAER for a short-term no-cost extension in which to complete the research project and expend grant funds. The extension requires approval of the FAER office and the chair of the FAER Grant Management Committee. Requests must be made to the FAER office 90 days prior to the original completion date of the grant.

Reporting

Mentored Research Training and Research in Education Grants

- The recipient must submit a report 90 days prior to the completion of year one (for example, May 15 for a July 1 completion date). The report should describe accomplishments to date, the current status of the project, and any revisions of the specific aims and goals. The research mentor must include a report describing the recipient's progress in the career development program. Reaffirmation of commitments by the recipient, research mentor and department chair must accompany the report. Any changes in the recipient's extramural funding must be reported. The financial report must summarize the expenditures and the amount of funding to be carried over to year two. The continuation of the grant for year two will be dependent on a favorable evaluation of the interim report by the FAER Board of Directors.
- A final report summarizing research accomplishments and career development of the recipient is due 30 days after the completion of year two of the award. The report should include one copy of publication(s) resulting from work during the grant period and a final detailed financial statement. Subsequent research grant applications either in the peer-review process or funded should be identified by title, applicants' names and institutional affiliations, amount of funding sought/awarded and the funding agency. This report should be prepared jointly by the grant recipient and research mentor. Failure to complete the final report in a timely fashion may jeopardize consideration of subsequent applications from the institution.
- Ordinarily, awards cannot be transferred to another research mentor. If there is a change in the research mentor, the recipient must request the change in writing. The new mentor must be approved by members of the FAER Grant Management Committee.

Research Fellowship Grant

- A final report is due one month after the completion of the year of the fellowship. The report should be jointly prepared by the research mentor and recipient. It should summarize the progress made by the recipient in terms of career development and research accomplishments, and it should provide a detailed financial report for all funds awarded. One copy of abstracts, publications and submitted manuscripts should accompany the final report. Failure to complete the final report in a timely manner may jeopardize consideration of subsequent applications from the institution.

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Application Instructions

FAER is using an online application system. You will find instructions for how to use the system at faer.org/programs/grants/application.html.

The following sections are intended to provide FAER grant applicants with an overview of materials to prepare, as well as formatting instructions.

Materials to Prepare and Submit

The following instructions must be followed or the application will not be accepted. All materials should be written by the applicant with the assistance of a research mentor.

Material	Description	Format of Submission	Character Count or Page Limit	File Size Limit
Biographical sketch	To be filled out by applicant and the research mentor. Use current NIH biographical sketch form: http://grants.nih.gov/grants/funding/phs398/phs398.html	File upload	4 (per individual)	2 MBs (per file)
Budget detail and justification	Complete the budget form for the specific grant provided, including the detail and justification of expenses. You will upload the file and copy and paste the budget justification questions into the fields available. Forms are available at faer.org/programs/grants/application.html .	File upload & online form	n/a	1 MB
Abstract	State the broad long-term objectives and specific aims of the project, relationship to anesthesiology, and research design and methods. The abstract should be a succinct and accurate description of the proposed work that is understandable apart from the application.	Online form field	1750 characters maximum	n/a

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Material	Description	Format of Submission	Character Count or Page Limit	File Size Limit
Resubmission statement	If you have previously submitted any project to FAER, a resubmission statement is required. If submitting a revised application, provide a summary of the differences between this and the previous application addressing the critiques of the original application point-by-point. If you are reapplying to FAER with a completely different research protocol, this statement should indicate how and why this project differs from the previous application.	Online text field	3000 characters maximum	n/a
Research plan*	<ul style="list-style-type: none"> • Specific Aims: State the long-term objectives and describe concisely what the research is intended to accomplish and the hypotheses to be tested. • Background and Significance: Briefly sketch the background to the present proposal, critically evaluate existing knowledge, and identify gaps that this project is intended to fill. • Preliminary Studies: Use this section to provide an account of the applicant's preliminary studies pertinent to the application and/or any other information that will help to establish the experience and competence of the investigator to pursue the proposed project. • Experimental Design and Methods: Describe in detail the experimental design and the procedures to be used to accomplish the specific aims of the project. Include the means by which the data will be collected, analyzed, and interpreted. Describe any new methodology and its advantage over existing methodologies. Discuss the potential difficulties and limitations of the proposed procedures and alternative approaches to achieve the aims. • References: Cite only the most important, relevant literature. 	File upload, see formatting instructions	12 pages	7 MBs

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Material	Description	Format of Submission	Character Count or Page Limit	File Size Limit
Mentoring and personal development plan*	<p>Include details about the role of the research mentor in the proposed research, specifics regarding the educational program for the applicant, and how this award and the research mentor's teaching will prepare the applicant for a research career. Indicate how much of the research mentor's professional time is available for research and how much is specifically available for this project. Indicate the benefits of this program to the career development of the applicant and the development of the applicant as an independent investigator. The proposed elements of career development (e.g., short courses and workshops, directed study, other courses) should be specified.</p>	File upload, see formatting instructions	4 pages	2 MBs
IRB/IACUC approval	<p>A letter of approval from the appropriate institutional human or animal use review committee must be included. If the study does not require this approval or if the application is submitted before approval is obtained, <u>a letter of explanation must be included</u>. Notification of institutional approval must be received in the FAER office prior to any award being made.</p>	File upload	n/a	2 MBs

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Material	Description	Format of Submission	Character Count or Page Limit	File Size Limit
Letters of commitment and recommendation	<ul style="list-style-type: none"> • Letter from chair indicating the following: <ul style="list-style-type: none"> ○ State professional duties and responsibilities of the applicant during the period of the grant, including percent time devoted to this project. ○ Confirm applicant's academic appointment for the duration of the grant. ○ Assure availability of technical support, space and facilities for the proposed research. ○ Assure responsible administration of funds with annual reporting of their disbursement and refunding of unused funds to FAER. ○ If the research mentor is in the chair's department, guarantee the percent of the research mentor's professional time and effort that will be for research-related activities. ○ Evaluation of the applicant's commitment to academic anesthesiology and potential for academic advancement. ○ Commitment to support the applicant's development during the award period. • Letter of commitment from research mentor. • Letters of recommendation and evaluation for the applicant from two senior faculty members, other than the research mentor, in or outside the applicant's department. 	File upload	n/a	2 MBs (per file)
Acceptance of conditions	<p>Applicant, research mentor, and department chair must sign and date the acceptance form provided. The form is available at faer.org/programs/grants/application.html.</p>	File upload	1 page	1 MB

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***Formatting Requirements**

The research plan, including the references section, and mentoring and personal development plan, as well as any other supporting documents, should be formatted to meet the following specifications:

- Line spacing must be 3 lines per inch (double spaced).
- Arial or Helvetica font, 11 point or larger (do not use a font variation such as Arial Narrow or Helvetica Narrow).
- Type density, including characters and spaces, must be no more than 15 characters per inch.
- It is acceptable to use a symbol font to insert Greek letters or other special characters. Do not use symbol or special characters in the project title.
- A 9-point font size may be used for figures, graphs, diagrams, charts, tables, figure legends and footnotes.
- Margins of 0.5" right and left, and 1.0" top and bottom must be maintained.

File Submission & Name Requirements

- Applications (including supporting documentation such as letters of recommendation) must be submitted in PDF format or Microsoft Word.
- Title each file with the applicant's name, grant submission deadline and the name of the document.
EXAMPLE: LastName_FirstName_Feb12_ResearchPlan.pdf