



IARS

International Anesthesia Research Society

IARS 2012 Frontiers in Anesthesia Research Award

Application Guidelines

Deadline: November 1, 2011

Eligibility

- 1) Applicant must be a member of the International Anesthesia Research Society.
- 2) Nominating letter from Department Chair must document that the candidate will have 65% research time (does not have to be exclusively for proposed project).
- 3) An accompanying letter from the appropriate individual of the institution responsible for grant-in-aids (i.e. Vice President of Research, Director of Research Administration or Assistant Dean of Research) is required.
- 4) Candidates must be pursuing independent research careers in anesthesiology.
- 5) Appropriate collaboration is encouraged. Collaboration with (an)other department(s) requires a letter of intent from the co-investigator.
- 6) Proposed research involving human or animal subjects must adhere to appropriate state and federal guidelines. Nominees must document compliance with institutional requirements.

Applicable Areas of Research

- 1) Proposed studies must address one of the following areas of research:
 - a. Fundamental Neuroscience Unknowns (including anesthesia safety in children)
 - b. Immune and Metabolic Consequences of Trauma, Surgery and Critical Care
 - c. Best Use of Systems-Based Practice to Enhance Patient Safety & Quality
- 2) For specific examples of the aforementioned research areas, see our **Key Research Questions** (<http://www.iars.org/awards/keyresearchquestions.asp>) .

General Guidelines

- 1) Projects should be completed within three years after the award of the grant.
- 2) Amount requested must not exceed \$750,000 payable over 3 years.
- 3) Funds should be used *only* for research support and direct costs. Budget should not be used solely for salary support.
- 4) Proposed research involving human or animal subjects must adhere to appropriate state and federal guidelines. Nominees must document compliance with institutional requirements.
- 5) All applicants must complete the official grant application no later than 11:59pm EST on November 1, 2011. All requested information must be supplied. Failure to do so will disqualify the application.

Disclosure

- 1) All current and pending extra-mural funding of all applicants must be disclosed in the Other Support document.
 - a. Project titles and any overlap to the proposed project must be listed.
 - b. Should funding status change (current and pending) during the application cycle it is the responsibility of the applicant to immediately notify the IARS.



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- 2) Any change in the status of the principal applicant, including funding, subsequent to the submission of the application must be conveyed in writing to the IARS, and may require review and reconsideration by the External Advisory Board.

Application

- 1) General Information
 - a. Name of applicant, academic degrees, faculty rank
 - b. Name of co-investigators, academic degrees, faculty rank
 - c. Applicant organization
 - d. Signing Official, Financial Officer, and Department Chair information
- 2) Project Information
 - a. Project title
 - b. Amount requested
 - c. Proposed start date
 - d. Abstract (not to exceed 250 words)
 - e. Budget
 - i. Direct costs only
 - f. Organizational assurances
 - i. Human subjects
 - ii. Vertebrate animals
- 3) Attachments (upload as .PDF)
 - a. Certification and acceptance of terms (template)
 - b. Applicant activities during award period (template)
 - c. Biographical sketches
 - i. Not to exceed four pages per investigator
 - d. Other support
 - i. Current and pending, including overlap with proposed project
 - e. Facilities (template)
 - f. Proposal Narrative (template)
 - i. Introduction and Specific Aims (not to exceed 1 page)
 - ii. Research Strategy (not to exceed 12 pages)
 1. Significance
 2. Innovation
 3. Approach
 - iii. Bibliography and References cited
 - g. Required Letters
 - i. Letters of Recommendation: 3
 - ii. Department Chair Nomination
 - iii. Letter from individual at institution responsible for grant-in-aids (i.e. VP of Research, Director of Research Administration or Assistant Dean of Research)
 - h. Additional Letters
 - i. Collaboration with another department requires letter of intent from co-investigator



Content of Proposal Narrative

This section is adapted from the U.S. Department of Health and Human Services Public Health Service Grant Application Instructions (PHS 398)

- 1) Begin each section of the Proposal Narrative with a section header (e.g., Introduction, Specific Aims, Research Strategy, etc.).
 - a. Introduction and Specific Aims
 - i. Limit: 1 page.
 - ii. State concisely the goals of the proposed research and summarize the expected outcome(s), including the impact that the results of the proposed research will exert on the research field(s) involved.
 - iii. List succinctly the specific objectives of the research proposed, e.g., to test a stated hypothesis, create a novel design, solve a specific problem, challenge an existing paradigm or clinical practice, address a critical barrier to progress in the field, or develop new technology.
 - b. Research Strategy
 - i. Limit: 12 pages.
 - ii. Significance
 1. Explain the importance of the problem or critical barrier to progress in the field that the proposed project addresses.
 2. Explain how the proposed project will improve scientific knowledge, technical capability, and/or clinical practice in one or more broad fields.
 3. Describe how the concepts, methods, technologies, treatments, services, or preventative interventions that drive this field will be changed if the proposed aims are achieved.
 - iii. Innovation
 1. Explain how the application challenges and seeks to shift current research or clinical practice paradigms.
 2. Describe any novel theoretical concepts, approaches or methodologies, instrumentation or intervention(s) to be developed or used, and any advantage over existing methodologies, instrumentation or intervention(s).
 3. Explain any refinements, improvements, or new applications of theoretical concepts, approaches or methodologies, instrumentation or interventions.
 - iv. Approach
 1. Describe the overall strategy, methodology, and analyses to be used to accomplish the specific aims of the project. Identify how the data will be collected, analyzed, and interpreted as well as any resource sharing plans as appropriate.
 2. Discuss potential problems, alternative strategies, and benchmarks for success anticipated to achieve the aims.
 3. If the project is in the early stages of development, describe any strategy to establish feasibility, and address the management of any high-risk aspects of the proposed work.



4. May include preliminary studies.
 - a. Discuss the PD/PI's preliminary studies, data, and/or experience pertinent to this application.
- c. Bibliography and References Cited
 - i. Provide a bibliography of any references cited in the Proposal Narrative.
 - ii. Each reference must include names of all authors (in the same sequence in which they appear in the publication), the article and journal title, book title, volume number, page numbers, and year of publication.
 - iii. Follow scholarly practices in providing citations for source materials relied upon in preparing any section of the application.
 - iv. References should be limited to relevant and current literature.
 1. While there is not a page limitation, it is important to be concise and to select only those literature references pertinent to the proposed research.

Format Guidelines

This section is adapted from the U.S. Department of Health and Human Services Public Health Service Grant Application Instructions (PHS 398)

Follow font and format specifications. Otherwise, application processing may be delayed or the application may not be reviewed.

- 1) Font
 - a. Use an Arial, Helvetica, Palatino Linotype or Georgia typeface, a black font color, and a font size of 11 points or larger. A symbol font may be used to insert Greek letters or special characters; the font size requirement still applies.
- 2) Attachment page margins and format
 - a. Use at least one-half inch margins (top, bottom, left, and right) for all pages.
 - b. Templates are downloaded as .doc documents.
 - i. Certification and Acceptance of Terms
 - ii. Applicant Activities During Award Period
 - iii. Facilities
 - iv. Proposal Narrative
 - c. All attachments must be uploaded as .PDF documents.
 - i. Includes Biosketches and Other Support documents
 - d. Because a number of reviewers will be reviewing applications as electronic documents and not paper versions, applicants are strongly encouraged to use only a standard, single-column format for the text.
 - e. The application must be single-spaced.
 - f. Consecutively number Proposal Narrative pages. Do not use suffixes (e.g., 5a, 5b).
 - g. Figures, Graphs, Diagrams, Charts, Tables, Figure Legends, and Footnotes
 - i. A smaller type size is acceptable, but it must be readily legible, follow the font typeface requirement, and use black font color.
 - h. Grantsmanship
 - i. Use English and avoid jargon.



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- ii. If terms are not universally known, spell out the term the first time it is used and note the appropriate abbreviation in parentheses. The abbreviation may be used thereafter.
- i. Proposal Narrative Page Limits (13 pages, excluding references)
 - i. Introduction and Specific Aims: 1 page
 - ii. Research Strategy: 12 pages
 1. Significance
 2. Innovation
 3. Approach
 - iii. References: no limit

Submitting a Proposal

- 1) All applicants must complete the official grant application no later than **11:59 EST on November 1, 2011**.
- 2) To access the official grant application, please visit www.IARS.org/awards/frontiers_app.asp.

Scientific Misconduct

- 1) Scientific misconduct is defined by public health service (PHS) as fabrication, falsification, plagiarism, or other practices that seriously deviate from those that are commonly accepted within the scientific community for proposing, conducting, or reporting research.
- 2) Each applicant's institution must confirm that administrative policies are established and followed for dealing with and reporting possible scientific misconduct.

Proposal Review and Selection

- 1) All applications will be reviewed by an External Advisory Board of experts, appointed by the IARS Board of Trustees.
 - a. The External Advisory Board will report to the IARS Board of Trustees and make a recommendation for the recipient.
- 2) Any change in the status of the applicant subsequent to submission of the application must be conveyed in writing to the IARS and will automatically require review and reconsideration by the IARS or an IARS-designated reviewer.
- 3) Amount requested must not exceed \$750,000 over three years and \$250,000 annually
- 4) Selection criteria include originality, scientific excellence and the candidate's potential for leadership in the field.
- 5) Proposed areas of study must have direct relevance to new and future directions of the anesthesiology specialty.
- 6) IARS provides grant opportunities without regard to race, color, religion, sex, national origin, age or disability.

Acknowledgement

- 1) The following text must be included in any and all presentations and/or publications resulting from research using funds from the 2012 Frontiers in Anesthesia Research Award: "Supported (or 'Supported in part') by the IARS Frontiers in Anesthesia Research Award."