

State of Connecticut Stem Cell Research Grants Program- 2014 RFP

Due Dates

Proposal Submission Deadline – December 18, 2013

Proposal Instructions

It is the intent of the Connecticut Stem Cell Research Advisory Committee to fund the best basic and translational stem cell research proposals that could result in clinical application. The Advisory Committee intends to maintain a program of outstanding science that will continue Connecticut's pioneering role as an international center of excellence and leadership in stem cell research.

Purpose

The Connecticut Stem Cell Research Grants Program, authorized in the Connecticut General Statutes (C.G.S.) §§ 19a-32d through 19a-32g, supports the advancement of embryonic and/or human adult stem cell research in Connecticut.

Proposals must describe the applicant's organization, the applicant's plans for stem cell research, proposed funding for such research from sources other than the State of Connecticut, and proposed arrangements concerning financial benefits to the State of Connecticut as a result of any patent, royalty payment or similar rights developing from any stem cell research made possible by the awarding of such grants.

The Connecticut Stem Cell Research Advisory Committee, in consultation with the Commissioner of Public Health, administers and monitors the grant program. Connecticut Innovations, Incorporated serves as administrative staff of the Advisory Committee, reviewing applications, and preparing and executing assistance agreements for the grants.

It is anticipated that up to ten million dollars will be available in the Connecticut Stem Cell Research Grants Fund for the fiscal year ending June 30, 2014. It is anticipated that up to ten million dollars will also be available for the fiscal year ending June 30, 2015.

Definitions

Embryonic Stem Cells: cells created through the joining of a human egg and sperm or through nuclear transfer that are sufficiently undifferentiated such that they cannot be identified as components of any specialized cell type.

Nuclear Transfer: the replacement of the nucleus of a human egg with a nucleus from another human cell.

Eligible Applicant: a nonprofit, tax-exempt academic institution of higher education, a hospital that conducts biomedical research, or any entity that conducts biomedical research or embryonic or human adult stem cell research.

ESCRO Committee: an Embryonic Stem Cell Research Oversight (ESCRO) committee means a committee established in accordance with the National Academies' Guidelines for Human Embryonic Stem Cell Research, as amended from time to time.

Overview

It is the intent of the Connecticut Stem Cell Research Advisory Committee to consider funding any form of stem cell research. Priority will be given to human stem cell research and to other studies with clear potential relevance to human health, including animal models of human disease, regeneration/repair and aging.

Who May Submit

Connecticut researchers engaged in the advancement of embryonic or human adult stem cell research are encouraged to submit proposals. Except under extraordinary circumstances, all research for which funds are requested must be conducted in Connecticut. Research must be conducted at an eligible academic institution, hospital or company. Researchers at such entities may apply for any category of grants. The researcher's institution, hospital, or company must undertake responsibility for financial administration of the grant and for overall compliance with rules governing research at that entity. Except as specified, applicants at academic research institutions must be faculty members. Non-tenure track faculty members may apply if their institutional policies permit them to hold independent grants. Postdoctoral fellows may apply for seed grants with the support of a faculty sponsor. Applicants from hospitals or companies must be permitted by their organization to hold research grants.

When to Submit

Submit completed, signed electronic copies of proposal, in one single PDF, which does not exceed 9 MG, **by 4:30 pm EST on December 18, 2013.**

NO ADDITIONAL PROPOSALS OR SUPPLEMENTAL MATERIALS WILL BE ACCEPTED BY CONNECTICUT INNOVATIONS IF RECEIVED AFTER THE SUBMISSION DEADLINE.

Where to Submit

A signed electronic copy of the proposal in one single **PDF**, which does not exceed 9 MB, should be sent to stemcellrfp@ctinnovations.com

Questions regarding the RFP should be submitted in writing to stemcellrfp@ctinnovations.com

Special Considerations for Human Embryonic Stem Cell (hESC) Research

A priority for the Connecticut Stem Cell Research Grants Program is to support research on hESC. Such research that is not currently eligible for federal funding is welcomed. The State is committed to the highest standard of ethical oversight and transparency, and expects all grant recipients to be in full compliance with all applicable laws, regulations and guidelines, including a review and approval by the Institutional Review Board (IRB) and Embryonic Stem Cell Research Oversight (ESCRO) Committee, when applicable, regarding this type of research.

The grantee's institution, hospital or company must establish an ESCRO committee, or establish an affiliation with an existing ESCRO committee, established in accordance with the National Academies' Guidelines for Human Embryonic Stem Cell Research, as amended from time to time, http://www.nap.edu/catalog.php?record_id=12923 to oversee all hESC research at the institution, hospital or company. Each grantee's institution, hospital or company must submit a list of members of the ESCRO committee along with a copy of the policies and procedures of the ESCRO committee and the ESCRO committee approval for the research project prior to the execution of the assistance agreement and release of funds. The Advisory Committee reserves the right to delay or rescind funding if it is not satisfied that the ESCRO committee is appropriately established and constituted. If an applicant institution, hospital or company does not have an established ESCRO committee, the application must summarize the entity's plans and timetable for establishing or affiliating with an ESCRO committee.

If research on non-federal hESC lines is to be conducted in a research environment that also receives federal funding support, the institution, hospital or company must have established a detailed policy for the segregation of funding in compliance with federal funding restrictions. The policy must be in place before the execution of the assistance agreement and release of funds.

Types of awards

Applications will be considered for (1) Seed Grants, (2) Established Investigator Grants, (3) Group Projects, and (4) Core Facilities.

1. Seed Grant Awards: These awards are intended to support the early stages of projects that are not yet ready for larger scale funding whether from federal or nonfederal sources. Established investigators new to stem cell research or developing new research directions may apply for seed grants. Junior researchers in academic institutions, hospitals and companies are also encouraged to apply. In academic institutions, priority will be given to junior faculty members at the start of their independent careers. Postdoctoral fellows, or equivalent, may apply with the support of a faculty sponsor or equivalent. A letter from the sponsor indicating support of the proposal must be included with the application and must describe the applicant's level of independence, as well as other resources/funding available for the project.

Requested funding for a Seed Grant Award may be up to \$200,000 (including indirect costs) and may be expended over 2 years. The yearly budget must not exceed \$100,000. Project Descriptions for Seed Grant applications are limited to 5 pages (inclusive of the main text, methodology, figures and legends). Other proposal requirements are described under "Guidelines for Preparation of Proposals."

2. Established Investigator Awards: These awards are intended for investigators with a track record of independent research including prior grant support and regular peer reviewed publications.

Requested funding for an Established Investigator Award may be up to \$750,000 (including indirect costs) and may be expended over 4 years. Funding is encouraged to be evenly budgeted over the duration of the award. Project Descriptions for Established Investigator applications are limited to 10 pages (inclusive of the main text, methodology, figures, and legends). Other proposal requirements are described under "Guidelines for Preparation of Proposals."

3. Group Project Awards: These awards are intended to support coordinated approaches to ambitious strategic goals that are beyond the scope of a typical single laboratory. Proposals should include explanations of the need for collaboration, along with plans for managing the collaborative process, including division of responsibilities among collaborators and timelines for achieving expected project milestones. If more than one institution, hospital or company is involved, the proposed budget must specify how funding is to be distributed between collaborating entities. As with other grants, eligibility for funding is restricted to researchers at Connecticut institutions, hospitals or companies. Group Projects may have multiple co-principal investigators, but one individual must be identified as the lead investigator and primary contact with the Connecticut Stem Cell Research Program. Two separate types of Group Project Awards are available, and priority will be given to those that are disease directed. Amongst these, the Connecticut Stem Cell Research Program encourages proposals that include disease directed collaborative arrangements between industry (e.g., biotechnology and pharmaceutical companies), medical centers and academic institutions. With the goal of promoting the development of novel treatments for disease, priority will be given to those highly meritorious projects for which, after successful completion of the proposed studies, clinical research would be the anticipated next step.

Note: Group Project Awards may include shared equipment as part of their budget.

- a. Requested funding for a Disease Directed Collaboration Group Project Award may be up to \$1.5 million (including indirect costs) and may be budgeted for up to 4 years. Descriptions for Group Project applications are limited to 50 pages (inclusive of the main text, methodology, figures, and legends). Other proposal requirements are described under "Guidelines for Preparation of Proposals."
- b. Requested funding for a Group Project Award may be up to \$1.5 million (including indirect costs) and may be budgeted for up to 4 years. Descriptions for Group Project applications are limited to 50 pages (inclusive of the main text, methodology, figures, and legends). Other proposal requirements are described under "Guidelines for Preparation of Proposals."

4. Core Facilities Awards: These awards are intended to provide shared core facilities for stem cell researchers at eligible Connecticut institutions, hospitals or companies. Applications will be considered for additional support for new technology development or to sustain the works in progress at the core facilities, already established with the support of core grant funding under the Stem Cell Research Program grants-in-aid funding, which are to be made widely accessible to the Connecticut stem cell research community, and that are likely to advance stem cell research throughout the State.

Proposals must include an explanation of the need for the continued support for the existing core facility, along with estimates of likely capacity and usage. Previously funded cores should provide specific details in their budget justification about the necessity of additional funding; including explanation of how new and existing funding will be integrated without overlap. Cores should provide information in the budget justification section of the proposal on the total operating budget of the core for the prior three years, the percentage of the operating budget derived from the Connecticut Stem Cell Research Program in the prior three years, and the percentage of operating budget derived from fee-for-service activities (internal and external to the organization). The proposed core budget should include the entire budget for running the core with indication of how funds will be obtained for those parts of the core for which funding from the Connecticut Stem Cell Research Program is not requested (e.g. philanthropic funds, other grants, user fees). Additionally, a plan for each existing core to attain future funding from sources other than the State of Connecticut must be noted in the budget justification section of the proposal.

Applicants should demonstrate a proven expertise in the relevant technology and ability to provide a high quality service. Funds may be used to cover equipment, salaries or other costs associated with establishing and operating cores. Cores will also be allowed to establish a reasonable fee-for-service schedule in order to recover additional costs associated with their operation. Proposed fees must be specified and approved by the institution, hospital or company.

Total available funding for Core Facilities Awards will not exceed \$ 1 million. Requested funding for a Core Facilities Award may be up to \$500,000 (including indirect costs) and may be budgeted for up to 2 years. Project Descriptions for Core Facilities applications are limited to 20 pages (inclusive of the main text, methodology, figures, and legends). Other proposal requirements are described under “Guidelines for Preparation of Proposals.”

Selection Criteria

The criteria to be employed in the evaluation shall include, but not be limited to, the following:

- Scientific merit of the proposed research
- Conformance to high ethical standards
- Ability to perform the proposed research
- Commitment of host institution, hospital or company and (where applicable) collaborators to the proposed project, including cost sharing
- Potential for collaboration across disciplines and institutions, hospitals or companies
- Benefits (including financial benefits) to the State of Connecticut
- Alignment with funding priorities as determined by the Connecticut Stem Cell Research Advisory Committee
- Consideration may be given to the number of Connecticut Stem Cell Research Grants currently held by the principal investigator, and preference may be given to a principal investigator that does not currently have funding from the Program.

I. Proposal Review

The Connecticut Stem Cell Research Peer Review Committee will review all proposals and make recommendations to the Connecticut Stem Cell Research Advisory Committee with respect to the ethical and scientific merit of each proposal. The Peer Review Committee will utilize the National Academies’ Guidelines for Human Embryonic Stem Cell Research, as amended from time to time, http://www.nap.edu/catalog.php?record_id=12923 and C.G.S. §§ 19a-32d through 19a-32g.

The Advisory Committee, in consultation with the Commissioner of Public Health, will make the funding decisions. The Advisory Committee reserves the right and discretion to fund one or more components or defined parts of an

application's proposed research project. In the event of such a determination, the applicant will be required to submit a revised budget reflecting the Advisory Committee's funding decision and such other information as the Advisory Committee may require.

At time of application, an applicant may send to Connecticut Innovations the name(s) of any reviewers with whom there is a conflict of interest and who should not be considered as reviewers.

Decisions regarding funding are anticipated on or after July 2014.

II. Funding

Notification of funding approval will be made by Connecticut Innovations.

The institution, hospital or company will then sign an assistance agreement indicating that the institution, hospital or company is in compliance with the requirements of applicable Connecticut General Statutes, Executive Orders and other administrative requirements. The institution, hospital or company must establish an ESCRO committee or become affiliated with an ESCRO committee that will review and approve proposals involving the use or creation of human embryonic stem cells and must submit a list of members of the ESCRO committee along with a copy of the policies and procedures of the committee and the ESCRO approval for the research project prior to the execution of the assistance agreement and release of funds. The Advisory Committee reserves the right to delay or rescind funding if it is not satisfied that the ESCRO committee is appropriately established and constituted.

The funding period begins on the effective date specified in the assistance agreement. Expenditures incurred before the effective date of the assistance agreement may not be charged against the project. Funding not used in a completed grant year may be used in a subsequent grant year to discharge expenses incurred but not yet paid in the completed grant year. Any other carry over funding shall be expended only in accordance with the terms specified in the assistance agreement.

Funding Availability

Funding is contingent upon the authorization and availability of state funds for this program.

Transmittal of Funds

Funds will be transmitted to the institution, hospital or company over the duration of the grant according to each year's budget request. Multi-year projects will receive the first installment immediately following the signing of the assistance agreement for the project, and subsequent installments will be transmitted after technical and fiscal progress reports are received and approved.

Audit of Funds

Expenditures by institutions, hospitals or companies may be subject to audit. Entities submitting proposals for funding must agree to cooperate by providing information for audit and a full review of the project.

III. Guidelines for Preparation of Proposals

Proposal

Signed electronic proposals must have pages numbered at the bottom, with one-inch margins, and with 12 point font. They may be single-spaced and shall be printed only on one side. Any reprints, appendices, or other materials to be considered with the proposal must be attached to the original proposal as well as electronic copies. The electronic copy of the proposal and all attachments should be sent in one (1) PDF file not to exceed 9 MB.

The total length of the proposal is dependent upon the type of award being sought and is outlined above under the heading "Types of Awards." Proposals that do not follow the prescribed format or are incomplete when they are submitted or otherwise do not conform to the requirements of these Proposal Instructions may be rejected as ineligible for consideration.

Applicants who are resubmitting a proposal that was previously submitted to the Connecticut Stem Cell Research Grants Program must provide a one (1) page Introduction, in which they explain how the current submission of the proposal was revised.

Proposals shall include the following:

1. Cover Page (Attachment I)

Use the format provided in Attachment I. A proposal is incomplete if any of this information or required signature is omitted. The Cover Page must be signed by the Vice President for Research or other authorized officer to confirm institutional approval for the application including financial as well as other types of regulatory compliance (see #8 Special Considerations).

A separate page (Attachment I), should be completed by an investigator at each participating institution, hospital or company. For projects with multiple investigators, the lead investigator should be indicated.

Please make sure to note whether or not your proposal contains privileged or proprietary information and mark these portions in yellow highlighted text.

2. Project Summary (Attachment II)

Use the format provided in Attachment II. The summary shall include a statement of objectives and the scientific methods to be employed written in lay language. Limit summaries to the space provided on Attachment II.

Note: Because the Project Summary will be available to the public, do not include proprietary information in the Summary.

3. Table of Contents

4. Project Description

Page limits for each type of Award are defined above under the heading "Types of Awards." The description of the project shall include the following subsections:

a. Project Objectives and Significance of Proposed Work

Describe the goals and objectives of the project. Discuss the rationale for choosing these objectives. Explain how these objectives compare to the state of the art and what distinguishes this proposed work from other efforts.

b. Project Plan

Describe the technical plan over the life of the project, how the proposed work will be organized into tasks and how the tasks are interrelated. Define clear, quantitative milestones and provide an expected schedule for reaching these milestones, including regulatory approvals where applicable. For projects involving several co-investigators and/or institutions, hospitals or companies, describe the expected contributions of each participant. Summarize the technical tasks that must be accomplished, with special emphasis on new or innovative technologies required for success of the project. Describe the technical challenges and the approach to overcoming any barriers. Assess the probability of success of this project.

c. Intellectual Property

Describe the plans and timeline to protect the intellectual property. Describe the plans and timeline for licensing the technology. As required by C.G.S. §§ 19a-32d through 19a-32g, applicants must submit *"proposed arrangements concerning financial benefits to the state of Connecticut as a result of any patent, royalty payment or similar rights developing from any stem cell research made possible by the awarding of such grants-in-aid."*

In evaluating proposed arrangements, it is expected that the State of Connecticut shall be entitled to royalties from the awardees and certain of its affiliates, at a minimum rate of 5 percent, on revenues generated from the exploitation of any invention or intellectual property that is conceived, created or developed during the stem cell research and development activities, and during the term of the funding or at any time during the 12-month period immediately following the term of funding, and which was made possible (in whole or in part) by, or otherwise resulted (in whole or in part) from the funding.

d. Bibliography

List the existing research and technology base that supports the proposed work. Please note that the bibliography shall not be included within the page limitations. References should include a full author list (do not use “et al.”), title, and journal publication information (journal, year, volume, page numbers).

5. Evidence of Commitment

a. Commitment of Institution, Hospital or Company and other Collaborators

Describe the commitment of the institution, hospital or company and that of other collaborators to this project.

b. Commitment of the Key People

- Describe their qualifications
- Describe the focus of each person’s efforts
- Estimate the percentage of time each person will devote to this project
- Describe the project management plan

c. Commitment to Sharing Resources

The Connecticut Stem Cell Research Grants Program expects grant recipients and their institutions, hospitals or companies to share reagents, data and protocols developed in connection with these grants. In particular such resources shall be made freely available to other Connecticut-based researchers. Describe plans for sharing such anticipated resources. If this is expected to involve significant costs to the recipient institution, hospital or company, the budget may include a component to cover these costs.

d. Financial Commitment from other Sources

Describe financial commitments to the project from other sources. As required by C.G.S. § 19a-32e, applicants must submit “proposed funding for such research from sources other than the state of Connecticut.”

e. Available Facilities and Major Items of Equipment

Describe the facilities and major equipment available for this project.

f. Other Support and Potential Overlap

List all active, pending (including proposals for the current proposal cycle) and recently completed (completed in the past 3 years) grants and provide the following information: grant title, funding agency, your role, percent effort, total direct costs, funding period, and overall objectives. For active and pending grants, state whether scientific or budgetary overlap exists with the current application. If funding is recommended, the principal investigator will work with Connecticut Innovations and the Advisory Committee to eliminate overlap, typically by modification of the scope and budget of the current or competing grants.

6. Biographical Sketches

Submit a brief biographical sketch, including patents and selected publications (three page maximum per person). For Seed Grant Awards, provide a biographical sketch for the applicant and, if appropriate, for the faculty sponsor.

7. Budget

a. Budget Detail (Attachment III)

Each proposal must contain a budget for each year of support requested and a cumulative budget for the full term

of requested support. Identify each year's request ("First year," "Second year," or "Cumulative Budget") at the top right of each page. Use the prescribed budget format provided in Attachment III. Companies should prepare the budget on a quarterly basis.

Salaries and Wages: List the names of the principal investigator(s) and other senior associates and the estimated amount of time dedicated to this project (number of academic-year, summer, or calendar-year person-months) for which funding is requested. Salaries requested must be consistent with the regular practices of the institution, hospital or company. Connecticut Stem Cell Research Grant funds must not be used to augment the existing salaries of investigators. Funds must not be used to reimburse faculty members for consulting or other activities that are in addition to a regular full-time institutional salary. For postdocs, graduate students and technical staff, etc., list only the total number of persons and total amount of salaries per year in each category.

Fringe Benefits: If the usual accounting practices of the institution, hospital or company provide that its contributions to employee benefits (social security, retirement, etc.) be treated as direct costs, funds may be requested to defray such expenses as a direct cost.

Equipment: The Connecticut Stem Cell Research Grants Program wishes to avoid expensive duplication of research infrastructure wherever possible. Therefore, any budget requests for major equipment must be carefully justified.

Identify items exceeding \$1,000 or more and a useful life of more than one year as Permanent Equipment. Special purpose research equipment having a unit acquisition cost of \$10,000 or more purchased or leased with project funding is subject to reasonable research equipment inventory controls, maintenance procedures, and organizational policies that enhance its multiple or shared use on other projects, if the other use does not interfere with the work on the project for which the equipment is acquired.

Travel: Funds may be requested for fieldwork necessary to carrying out the project and up to \$5,000 per year to travel to conferences to present findings or to further the research. (Documentation of expenses will be required in subsequent fiscal reports.)

Other Direct Costs: The budget should itemize other anticipated direct costs, including materials and supplies, publication costs, and computer services. Other examples include payments to service charges, and construction of equipment or systems not available off-the-shelf.

Publication Costs/Page Charges: The budget may request funds for the costs of publishing the results of the project, including costs of reports, reprints, page charges, other journal costs and necessary illustrations.

Cost of sharing reagents: If the project is expected to generate reagents or data that will be of general value to the research community, the budget may include a component to cover the reasonable costs of generating and distributing such resources.

Indirect Costs: Budgets may include indirect costs, which may not exceed 25 percent of the Modified Total Direct Costs (MTDC). MTDC are described in Attachment A of OMB Circular A122 and consist of all salaries and wages, fringe benefits, materials and supplies, services, travel, and sub-grants and subcontracts up to the first \$25,000 of each sub-grant or subcontract (regardless of the period covered by the sub-grant or subcontract). Equipment, capital expenditures, charges for patient care, rental costs and the portion in excess of \$25,000 shall be excluded from MTDC. Participant support costs shall generally be excluded from MTDC.

b. Budget Explanation/Justification

In a separate section titled "Budget Explanation/ Justification," clearly delineate the specific use and justification of funds. Breakdowns should be as accurate and specific as possible. For equipment funding requests, describe and justify each piece of requested equipment. Identify location of use. If comparable equipment is available at the institution, hospital or company, explain why it cannot be used.

Include in this section a detailed description of the contributions from the institution, hospital or company and collaborators.

Core Facility applicants must also comply with specific budget requirements in the Core Facilities Awards section and must include a description of a plan to attain future funding from sources other than the state of Connecticut.

8. Special Considerations

Several situations require written assurance that appropriate institutional, hospital or company clearance procedures are in place:

1. Projects that involve the use of recombinant DNA and/or hazardous reagents.
2. Projects that involve use of human eggs, embryos and/or human embryonic stem cells.
3. Projects that involve the use of human subjects.
4. Projects that involve the use of animal subjects.

All proposals must be in compliance with federal, state and local laws and all applicable permitting requirements. Prior to conducting research involving human embryonic stem cells, documentation verifying that any human embryos, embryonic stem cells, unfertilized human eggs or human sperm used in such research have been donated voluntarily as required by C.G.S. §§ 19a-32d through 19a-32g must be provided to the Commissioner of Public Health on a form available from the Connecticut Department of Public Health.

This form is available by going to the following website:

http://www.ct.gov/dph/lib/dph/stem_cell/grants/VERIFICATION_OF_VOLUNTARY_DONATION_2008.pdf.

9. Appendix

Letters of commitment from the institution, hospital or company and collaborators should be included. For applicants at the postdoctoral fellow stage, a letter of support from the faculty sponsor should also be included.

IV. Project Administration

Responsibility for general supervision of all project activities rests with the institution, hospital or company.

Adherence to Original Budget Estimates

A reallocation of 10 percent or more in the aggregate of the total approved annual budget requires the prior written approval of Connecticut Innovations. Reallocation of more than 20% in the aggregate of any approved annual budget requires the prior written approval of the Advisory Committee. The written request to re-budget, signed by the principal investigator and the authorized institution, hospital or company representative, must fully explain the need for re-budgeting and must describe the impact, if any, on the conduct of the research.

Changes in Personnel

Timely notification to Connecticut Innovations (who will notify the Advisory Committee) is required for any change in any principal investigator(s) before or after signing the assistance agreement. The notification must be submitted at least one month prior to effective change and must describe the impact, if any, on the conduct of the research. Curriculum Vitae must be provided for the proposed new principal investigator(s). A change in principal investigator that occurs after the peer review process is completed and prior to the signing of the contract may result in the denial or rescission of funding by the Advisory Committee. All changes involving senior personnel must be approved by the Advisory Committee in accordance with the terms specified in the assistance agreement. If the principal investigator terminates employment with the institution, hospital or company, the entity may terminate the project, or when appropriate, propose to the Advisory Committee a substitute principal investigator to continue the project. Any reduction in effort by a principal investigator will require written approval by either Connecticut Innovations (if the reduction is between 10% and 20% of any approved annual budget) or the Advisory Committee (if the reduction in effort equals more than 20% of any approved annual budget).

Funding cannot be transferred from the institution, hospital or company except when the grantee moves to another eligible entity within Connecticut and the transfer receives the prior approval of the Advisory Committee in accordance with the terms specified in the assistance agreement.

Change in Material Scope of Project

A material change in the objective or scope of the project must be approved by the Stem Cell Research Advisory Committee in accordance with the terms specified in the assistance agreement.

Equipment

Title to equipment purchased or fabricated with funds or matching funds vests in the institution, hospital or company.

Project Reports

Principal investigators are required to submit Annual Technical Progress Reports in accordance with the Special Reporting Requirements in the assistance agreement. Reports shall:

- summarize activity during the prior Reporting Period as defined in the assistance agreement;
- describe progress with reference to scheduled milestones;
- identify any significant scientific developments and all invention and intellectual property disclosures;
- describe collaborative work;
- describe any problems encountered;
- include a list of publications stemming from the funded project; and
- include a detailed summary in lay language suitable for the public and press on a form provided by Connecticut Innovations. Lay summaries should include a brief introductory comment of the problem being studied, an explanation of the progress made, difficulties encountered. The final results should be written for understanding by the general public and the Advisory Committee.

Institutions, hospitals and companies are required to submit **Semi-Annual Fiscal Reports** for each project.

Failure to submit required reports or the submission of incomplete or inadequate reports could result in deferral of subsequent installment payments or termination of support and forfeiture of funds.

The Advisory Committee and/or their designees reserve the right to conduct site visits for funded projects.

Principal investigators are required to submit a **Final Report** within 90 days after the expiration of an assistance agreement. This report must include information needed for purposes of program management, evaluation, fiscal accountability, and informing the public about the results of research supported under the Connecticut Stem Cell Research Grants Program.

Acknowledgment of Support and Disclaimer

Any submitted publication, whether in peer-reviewed journals, meeting abstract formats, or in review articles or similar publications, or any internal presentation to the public and/or external discussion of the Project in oral presentations, posters or meeting abstracts based on research activity supported by the funding must contain the following acknowledgment: **“This material is based upon work supported by the State of Connecticut under the Connecticut Stem Cell Research Grants Program.”**

A list of publications stemming from the funded project shall be submitted with each Annual Technical Progress Report and with the Final Report.

Documents as Public Records

All documents submitted to the Connecticut Stem Cell Research Grants program will become a matter of public record and will be available to the public, except as described below. Information or material that Connecticut Innovations and the institution, hospital or company mutually agree to be of a privileged nature will be held in confidence to the extent permitted by law. Without assuming any liability for inadvertent disclosure, Connecticut Innovations will seek to limit

dissemination of such information only to its employees, selected employees at the Connecticut Department of Public Health, the Connecticut Stem Cell Peer Review Committee, and to the Connecticut Stem Cell Research Advisory Committee. Accordingly, a proposal which indicates the inclusion of “Proprietary and Privileged Information” on the cover page, will be released to the Connecticut Stem Cell Peer Review Committee, and to the Connecticut Stem Cell Research Advisory Committee only after those reviewers have signed a non-disclosure document reflecting applicable state law. Applicants are required to identify the words or paragraphs in **yellow highlighted text** on specific pages of the application that contain trade secrets or other proprietary information. Notwithstanding the foregoing, all applicable laws governing access to public records will be observed.

Inventions, Software, and Copyrights

As required by C.G.S. §§ 19a-32d through 19a-32g, applicants must submit “*proposed arrangements concerning financial benefits to the state of Connecticut as a result of any patent, royalty payment or similar rights developing from any stem cell research made possible by the awarding of such grants-in-aid.*” The State of Connecticut encourages the publication and distribution of the results of the project performed under its funding. The Commissioner of Public Health retains the right to use published materials resulting from the performance of work under Connecticut Stem Cell Research Grants Program funding for state purposes.

Award Documentation

Applications selected to receive funding will be required to execute an Assistance Agreement and Royalty Agreement in forms approved by the Advisory Committee.

Attachment I- CT Stem Cell Research Proposal

Cover Page

Attachment I should be completed by the principal investigator of each participation institution. For projects with multiple investigators, the lead investigator should be indicated.

- Indicate type of project:
- Seed Grant
 - Established Investigator Grant
 - Disease Directed Collaboration Group Grant
 - Group Project Grant
 - Core Facility Grant

Title of Project:

Institution/Hospital/Company:

PI Name (sponsor where applicable):

Research will be conducted in Connecticut: Yes No (If No, justification must be provided. Note that except under extraordinary circumstances all research funded by the Connecticut Stem Cell Research Program must be conducted in Connecticut).

Signature(s): _____

I certify that the statements herein are true, complete and accurate to the best of my knowledge. I am aware that any false, fictitious, or fraudulent statements or claims may subject me to criminal, civil, or administrative penalties. I agree to accept responsibilities for the scientific conduct of the project and to provide the required progress reports if a grant is awarded as a result of this application.

PI Department/Mailing Address:

PI Phone:

PI Email:

Amount Requested: \$

Authorized Representative and Title:

I certify that the statements herein are true, complete and accurate to the best of my knowledge, and accept the obligation to comply with all terms and conditions of the Connecticut Stem Cell Research Grants Program and all applicable laws and ethical standards if a grant is awarded as a result of this application. I am aware that any false, fictitious, or fraudulent statements or claims may subject me to criminal, civil, or administrative penalties.

Signature: _____

Date:

Items included in Project (please check where appropriate):

- Proprietary and privileged information (identify such words/paragraphs on specific pages in **yellow highlighted text**)
- Recombinant DNA and/or hazardous reagents
- Human eggs, embryos, and/or human embryonic stem cells
- Animal subjects
- Human subjects

Attachment II- CT Stem Cell Research Proposal

Project Summary (in non-scientific language)

Attachment II should be completed by the principal investigator of each participating institution, hospital, or company. For projects with multiple investigators, the lead investigator should be indicated.

Title of Project:

Principal Investigator:

Institution/Hospital/Company:

Collaborator(s):

One sentence description: This projects purpose is to

Project Summary (please limit to this side of form):

Attachment III- CT Stem Cell Research Proposal

Budget- Attachment III should be completed by the institution, hospital, or company.

Budget for Year No.

Cumulative Budget

A. Senior Personnel (PI, Co-PI, Faculty and other Senior Associates).	Grant Funded Person Months	Funding Requests
1.		
2.		
3.		
4. Others (List individually on Budget Justification Page)		
5. Total Senior Personnel (1-4)		
B. Other Personnel (List individually on Budget Justification Page)		
1. Post-Doctoral Associates		
2. Other Professionals (Technician, Programmer)		
3. Graduate Students		
4. Other (specify)		
Total Salaries and Wages (A&B)		
C. Fringe Benefits (If charged as direct costs)		
Total Salaries, Wages, and Fringe Benefits (A,B,&C)		
D. Permanent Equipment (Describe on Budget Justification page)		
E. Other Direct Costs (Describe on Budget Justification Page)		
1. Materials and Supplies		
2. Publication Costs/ Page Charges		
3. Computer Services		
4. Other		
Total Other Direct Costs		
F. Indirect Costs (Describe on Budget Justification Page)		
G. TOTAL COSTS (A through F)		
H. Projected Revenues		
I. Total Contributions from Other Sources		