



Heart and Stroke Foundation of Canada
CIHR Institute of Circulatory and Respiratory Health

Request for Applications
JUMP START RESUSCITATION
June 2009

BUILDING RESEARCH CAPACITY IN RESUSCITATION

The aim of the ***Jump Start Resuscitation*** initiative is to build greater capacity for resuscitation research in Canada and to support the next generation of researchers who will contribute to advancing knowledge and improving the quality of patient care and patient outcomes in this important area.

Master's Studentships, Doctoral Research Awards, Research Fellowships, and Research Scholarships are available.

Deadlines:

Deadline for application (all programs):	November 6, 2009
Notification of decisions:	May 2010
Anticipated start date for successful applications:	July 1, 2010

Background

While it is recognized that cardiac arrest outcomes have improved greatly since the standardization of resuscitation practices, the advances of resuscitation science have been slowed by a scarcity of research on both national and international fronts (*HSFC Resuscitation Research Forum Report, February 2006*). To actualize a reduction in mortality due to sudden cardiac death, many research topics need to be addressed: timing of chest compressions, ventilation and defibrillation, the value of various drugs and methods for improving the frequency and quality of bystander Cardio-Pulmonary Resuscitation (CPR), are but a few.

The Heart and Stroke Foundation of Canada (HSFC) and the Canadian Institutes of Health Research, Institute of Circulatory and Respiratory Health (ICRH) recognize the current areas of strength within resuscitation in Canada as well as the enormous potential to decrease mortality associated with cardiac arrest through continuing commitment, education and research. As such, resuscitation is one of three priority areas for the HSFC's strategic Federation Research Fund.

Supporting personnel awards in the area of resuscitation, is one strategy HSFC and ICRH are embarking on to increase the number of highly qualified personnel including physicians, nurses, paramedics and other health professionals involved in research related to pre-hospital care and resuscitation.

Objectives

The objectives of this initiative are:

- 1) to increase the number of trained researchers working in the area of resuscitation
- 2) to build greater capacity for resuscitation research in Canada, and
- 3) to encourage more research by health professionals related to out of hospital and in-hospital cardiac arrest care, including: emergency medicine, critical care, cardiology, nursing, psychology, paramedicine, and public health.

Program Description

The programs available within this initiative are:

Award Type	Description	Value
<u>Master's Studentship</u>	Support for highly qualified candidates who have completed or are in the last year of a Baccalaureate degree and are/will be enrolled in a Master's program.	\$18,000 stipend per annum + \$500 travel allowance per annum. For up to 2 years.
<u>Doctoral Research Award</u>	Support for highly qualified graduate students undertaking full-time research training towards a PhD.	\$21,000 stipend + \$1,000 travel allowance per annum. For up to 3 years.
<u>Research Fellowship</u>	Support for highly qualified postdoctoral candidates wishing to receive further research experience and training.	PhD \$40,000 stipend/ MD \$50,000 stipend + \$1,500 travel allowance per annum. For up to 3 years.

Award Type	Description	Value
Research Scholarship	<p>Career support for applicants with credentials in a regulated accredited health discipline such as, but not limited to nursing, social work, pharmacology, respiratory therapy, and medicine. Note: paramedics, although not a regulated/accredited discipline in all provinces, are eligible to apply.</p> <p>The applicant must have a faculty appointment and be involved in active research and clinical practice.</p>	<p>\$45,000 stipend + \$5,000 research allowance per annum.</p> <p>For up to 2 years.</p>

Eligible Research Areas

Applicants must clearly articulate relevance of the proposed research to resuscitation in order to be eligible for funding.

The Partners

HSFC, a volunteer-based health charity, leads in eliminating heart disease and stroke and reducing their impact through the advancement of research and its application, the promotion of healthy living, and advocacy.

CIHR is Canada's premier federal funding agency. Its objective is to excel, according to internationally accepted standards of scientific excellence, in the creation of new knowledge and its translation into improved health for Canadians, more effective health services and products and a strengthened Canadian health care system.

The CIHR Institute of Circulatory and Respiratory Health (ICRH) supports research into the causes, mechanisms, prevention, screening, diagnosis, treatment, support systems, and palliation for a wide range of conditions associated with the heart, lung, brain (stroke), blood, blood vessels, critical and intensive care, and sleep. The ICRH vision is to achieve international leadership by fostering an environment of openness, excitement, energy, commitment and excellence in highly ethical, partnered initiatives focused on research, research training, and research translation for the circulatory and respiratory sciences and for the betterment of the health of Canadians. In March 2007, following consultations with the ICRH community and Institute Advisory Board, the following eight priorities were identified:

- obesity, diabetes and cardiovascular complications;
- technology for diagnostic and therapeutic advances, including imaging technologies for early detection of disease;
- psychological, social, behavioral and environmental determinants of at risk behaviour for chronic disease, and means of effective interventions;

- sleep: circadian impact on respiratory and cardiovascular diseases, metabolism and obesity, and means of diagnosis, treatment and prevention;
- biomarkers for chronic disease, including genetic, proteomic and phenotypic markers for prevention, diagnosis and guidance for therapy;
- aging and the cardiorespiratory system: changing epidemiology, physiology, and means to healthy aging and disease prevention;
- injury repair and inflammation: mechanisms leading to the development of chronic diseases and their potential prevention;
- transplantation-regeneration-cell based therapies to affect cure rather than palliation, including relevant bioethics aspect.

ICRH will provide funds to support top Doctoral Research Awards and Research Fellowships.

Details of the Peer Review Process

HSFC will assemble a qualified panel of reviewers to assess the scientific excellence of applications to the Jump Start Resuscitation initiative. Applications deemed excellent in the peer review process will be considered for funding. The top rated applications will be funded within the envelope of available funds for this initiative. *Please note that application information will be shared with partner organizations in this strategic initiative for program administration and record-keeping purposes.*

Evaluation

Applications will be assessed using the following criteria (please refer to the full award guidelines for additional details):

- The quality of the applicant, including:
 - a) Academic Record
 - b) Research experience and potential
 - c) Documented publications.
- The research environment, including the supervisor or mentor with whom the applicant intends to work.
- The quality of the research project.

Conditions of Funding

Applications deemed excellent in the peer review process will be considered for funding through this initiative. The top rated applications will be funded.

Awardees are required to acknowledge the support of HSFC and CIHR-ICRH in all communications (e.g., presentations, publications) related to this funding.

Instructions for Submitting an Application to Jump Start Resuscitation

Applicants should carefully review the specific award [Guidelines](#). Please follow the instructions for completing an HSFC application, noting the following special instructions:

1. Complete the appropriate [HSFC application form](#). The HSFC application form **must** be used. Note clearly at the top of your application form “Jump Start Resuscitation”.
2. When completing the structured lay summary (section 20 on the application form for the Master’s Studentship, Doctoral Research Award and the Research Fellowship, section 21 for the Research Scholarship), detail how the application relates specifically to resuscitation (demonstrate relevance to this strategic competition).
3. Email the following information to anguyen@hsf.ca before 4:00 p.m. on the application deadline: a) your project title, b) type of award requested, and c) project lay summary (the text from section 20 (section 21 for the Research Scholarship) of your application form).
4. Complete the Jump Start Resuscitation [consent form](#) to allow HSFC to provide details of your application to funding partners. Note: consent is required in order to be eligible for a Jump Start Resuscitation award.
5. Submit the required number of paper copies and carefully follow the instructions for submitting the application as a PDF file on CD as part of your application package.
6. Applications must be received by HSFC no later than 4:00 p.m. on the deadline date (no post-marking):
Heart and Stroke Foundation of Canada
222 Queen Street, Suite 1402
Ottawa ON K1P 5V9
Fax: 613 569 3278

For more information about this program, please contact:

Ann Nguyen

Information/Project Coordinator

Heart and Stroke Foundation of Canada

Phone: 613 569 4361 ext. 268

Email: anguyen@hsf.ca.