

Proposed NSERC CREATE Training Program for Innovative Shipbuilding/Marine Research and Training – iSMART

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NSERC CREATE Program for iSMART

- Training graduate students is the primary objective of the program
- The six-year NSERC CREATE program provides funding for trainees
- Research focus is chosen from key research areas identified at the UBC Workshop
- Non-technical professional development opportunity is included in the program to address the needs of the marine industry

Key Aspects

- Engaging students in theme-based research
- Valued added experiences
 - Non-technical professional development (project management, communication skills - oral, written and presentation)
 - Student mobility between national and international universities and/or industry (exchanges and internships). Primary supervisor at home university, secondary at host university
 - Increased collaboration between academia and industry

Collaborators

- Canadian Universities
 - Memorial University
 - University of British Columbia
 - University of Victoria
 - University of New Brunswick
 - Dalhousie University
- International Institutions (collaborators)
- Industry and Government Agencies

Research Themes

- Green ship technologies
- Arctic technology
- Marine simulation
- Advanced shipbuilding technologies (systems design and modeling)

NSERC CREATE iSMART – Funding Structure (1)

- NSERC CREATE funding to provide
 - Base funding for graduate student stipends
 - Travel allowance for students to attend annual conferences and to participate in national/international exchange.
 - Professional development opportunities

NSERC CREATE iSMART – Funding Structure (2)

- NSERC funding - \$1.65M
 - 80% for student stipends
 - Scenarios:
 - \$12K (PhD)/\$10K (Masters) (12 PhD/35 Masters)
 - \$22K (PhD)/\$18K (Masters) (9 PhD/15 Masters)
 - 20% other eligible costs
 - Computer/office/ website/ promotion/recruitment
 - Program coordinator (partial support)
 - Student exchange travel
 - Professional development

NSERC CREATE iSMART – Funding Structure (3)

- Collaborating Institutions will provide
 - Supplemental funding for student stipend and travel
 - Research materials, equipment and supplies to support student research activities
 - Travel costs for faculty to attend annual conferences
 - Space for students and visiting students

NSERC CREATE iSMART - Additional Funding Support

- Additional funding will be required to facilitate activities not covered by the base NSERC funding
- Co-investigators are encouraged to leverage NSERC CREATE funding with local/provincial/regional support
 - For example, Memorial will seek leverage from School of Graduate Studies (Memorial) and Research & Development Corporation (RDC)
- Industry partners are encouraged to support specific research projects

Roles of iSMART Members

- iSMART National Network members are to provide
 - Guidance for research and training priorities
 - Network for potential internship option (typically four months) for graduate students
 - Speakers at technical seminars and annual conferences

Next Steps

- To identify
 - Academic co-applicants
 - Industry and government collaborators
 - International university collaborators
- To prepare LOI and full application

Timeline

- Program timeline:
 - Letter of Intent – May 2017
 - Proposal – September 2017
 - Results- February 2018
 - Program Period: April 2018 – March 2024