

# Kids Brain Health Network

## Request for Applications and Guide for 2018-2020 Funding

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**Summary:** Kids Brain Health Network (KBHN), a national Network of Centres of Excellence (NCE), is currently in its 8<sup>th</sup> Year of a possible 15 years of funding, extending to 2025. We are soliciting proposals for three funding categories in Years 9 and 10 (2018-2020). Key to this effort will be proposals that engage primary stakeholders and address issues of concern to individuals with neurodevelopmental disabilities (NDD) and their families/care givers. Research project submissions must be translational, with capacity for commercialization or social innovation, and present leveraged funding opportunities. New members of KBHN who have not previously received funding from Kids Brain Health Network are encouraged to apply, as are existing research teams that are currently supported by KBHN.

**Overview:** Kids Brain Health Network ([www.neurodevnet.ca](http://www.neurodevnet.ca)) is a highly interactive Canadian Network of Centres of Excellence (NCE) ([www.nce.gc.ca](http://www.nce.gc.ca)) with the following goals:

- early diagnoses of neurodevelopmental disabilities (NDD),
- linking the early diagnosis to evidence-based interventions, and
- effective and cost-efficient support for the child and their family

Kids Brain Health Network was established in 2009 under the name NeuroDevNet, receiving a \$19.5 million, 5-year award from the federal Network of Centres of Excellence program (Cycle 1 funding; 2009-2014). Its initial focus was research into early detection and etiology of three neurodevelopmental disorders (NDD): autism spectrum disorder (ASD), fetal alcohol spectrum disorder (FASD), and cerebral palsy (CP). Research-service cores for Neuroinformatics, Neuroethics and Knowledge Translation (KT) have supported the efforts of the research projects to enhance their individual impact as well as that of the Network.

In its second 5-year funding cycle (Cycle 2; 2015-2020), two new research programs were added: Social Determinants of Health/Health Economics and Better Nights and Better Days for children with NDD. We have moved the Network toward less focus on specific diagnoses and widening our focus on all individuals with NDD and support for their families. This across-neurodevelopmental-disabilities approach will continue into Cycle 3.

In 2019, KBHN will be applying to the NCE program for another five-year renewal of funding for Cycle 3. In preparation for this second renewal, KBHN is soliciting projects for Years 9-10 (2018-2020) to help develop outstanding research teams that will contribute to the next seven years of success, and beyond.

Eligible Projects will emphasize innovation, a national scope, and possess a high degree of potential for cross-disciplinary networking and synergy with past Kids Brain Health Network efforts. Investigators are strongly encouraged to address issues that are most relevant to patients, parents and caregivers to improve the quality of life of individuals with NDD and to identify partners who will help drive this research team. The proposed research must reflect a planned trajectory from knowledge/discovery to impact ([definition below, \\*](#)) and demonstrate promise of sustainability. Material support from external institutions and/or industrial partners is critical.

# Kids Brain Health Network

## Request for Applications and Guide for 2018-2020 Funding

---

Successful proposals will be selected based on the criteria listed below, that includes excellent science, stakeholder engagement, innovative ideas, synergies with previous efforts, and potential impact.

### IMPORTANT DATES:

<b>May 31, 2017</b>	Registration of intent to submit an application
<b>September 11, 2017</b>	Application Submission Deadline
<b>January 2018</b>	Review of Applications
<b>March 2018</b>	Approval of Awards
<b>April 1, 2018</b>	Funding

### Funding Scope, Term, and Budget

Approximately \$1.2M per year in funds will be available for three funding categories:

**Proto-Impact Projects (PIPs):** that identify a team that meets the criteria and are ready to move toward impact. Budget requests can be in the range of \$100K/yr. It is expected that these Projects produce impactful deliverables annually and result in strong applications for Impact Teams for Cycle 3 funding and long-term sustainability (for [Cycle 3 Impact Team see \\*\\* below](#)).

**Discovery Impact Projects (DIPs):** Projects that are ready to deliver results but could use additional support to realize greater impact. Projects can be from current KBHN activities or new to the KBHN portfolio, but synergistic with previous KBHN research areas. Budget requests can be in the range of \$25-75K/yr. Preference will be given to projects that position themselves to be a part of Cycle 3 funding.

**Team Development Grants (TDGs)** will support the exploratory efforts to establish larger Impact Teams for Cycle 3. Proposed activities should focus on identification of NDD community needs/issues, team development, and stakeholder engagement. Budget requests can be in the range of \$25-50K/yr.

### Key Elements of Each Proposal (Criteria)

The competition is open to Projects bringing innovation to all neurodevelopmental disorders. Although the Network is moving toward a non-categorical approach to NDD, a single-disorder-based proposal will be considered if its impact is high and the approach promises cross-disorder pollination. The Kids Brain Health Network's strategic plan for renewal, and a goal for this competition, strongly emphasizes the following considerations for a successful proposal:

- National need and scope including the burden to Canadian society associated with the need (significance)

## Kids Brain Health Network Request for Applications and Guide for 2018-2020 Funding

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- Confirmation of need through stakeholder/family engagement and ongoing plans for continued engagement
- Likelihood for success in addressing the need
- Include clearly identified objectives and deliverables as well as metrics to measure success
- High probability that funding will contribute to a competitive Impact Team for the Cycle 3 renewal (i.e. Years 11-15)
- The proposal must be innovative and trans-disciplinary, and demonstrate proven capacity to translate research from concept to impact
- Distribution/delivery partners must be identified and engaged throughout the project, including financial support
- Provide a viable plan to move to independence and sustainability by the end of Cycle 3 where partner engagement is key
- Have an advisory member or team to mentor the project -- the mentorship team can be scaled to the level of funding sought

Applications will be reviewed by the Kids Brain Health Network Research Management Committee with input from the KBHN International Scientific Advisory Committee using the evaluation criteria noted above and provided in the Application Guide, below.

**Submit questions via our [Q&A webpage](#) or contact us directly at [funding@neurodevnet.ca](mailto:funding@neurodevnet.ca). Follow us on twitter [@KidsBrainHealth](#) and we will be posting updates using [#KBHNRFA](#).**

## APPLICATION GUIDE and INSTRUCTIONS

### A. Proposal Category

Going forward we want to create a set of Impact Teams for Cycle 3. This Year 9-10 funding mechanism is designed to achieve this aim. In order to facilitate their development three categories of projects will be part of this call:

- 1) Proto-Impact Projects (PIPs)** are aimed at teams that are ready to move toward impact. Funds can be used for research, trainees, travel/meeting to develop partners and for stakeholder engagement and consultation. It is expected that these Projects will result in more fully developed “Impact Teams” proposals for Cycle 3 funding. Budget requests can be in the range of \$100K/yr.
- 2) Discovery Impact Projects (DIPs):** Projects, whether supported by current KBHN funding or new but synergistic with previous KBHN funding, that need up to two years of funding to attain impact. Funds can be used for to support research, trainees, travel/meetings to develop partners and for stakeholder engagement. Preference will be given to promising projects that position themselves to be a part of Cycle 3 funding. Budget requests can be in the range of \$25-75K/yr.
- 3) Team Development Grants** are more exploratory than DIPs and will support the establishment of larger Impact Proposals for Cycle 3. Funding can be used to support meetings and stakeholder engagement, trainees, travel, and limited research expenses that are directed toward the submission of a more fully developed Impact Proposal for Cycle 3. Budget requests can be in the range of \$25-50K/yr.

### B. Proposal Preparation

Each proposal will be assessed against the above key elements/criteria and formatted using the following headings. Addressing the criteria can be reasonably scaled back relative to the funding category and money that are being requested.

#### Organization of proposal for all funding categories:

##### 1. Research Plan

###### Research Objectives and Executive Summary

###### Research Excellence

- Provide the necessary background that supports the proposal
- Address how the project emanates from stakeholder needs (see example of [KBHN stakeholder engagement results \\*\\*\\*](#)), is multi-disciplinary and innovative and seeks results/information of major significance, as judged on an international level and promises significant socio-economic impact for Canada.
- Address how the proposal shows a high potential for impact ([see \\* below](#))
- Address how the project is feasible to complete during the proposed funding period.
- Detail how the proposal’s integration into the framework of existing Kids Brain Health Network activities.

# Kids Brain Health Network

## Request for Applications and Guide for 2018-2020 Funding

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- Provide details on the creation of a mentor/mentorship team that will assist the project in attaining its deliverables

### **Milestones and Deliverables**

- Concrete and measurable deliverables should be clearly defined and the anticipated impact for the Network and the research community be thoughtfully stated.
- Milestones need to be provided in discrete or quantitative terms at 3-6 month intervals throughout the proposed funding period.

## **2. Networking and Partnerships**

- Provide background and commitment of partners in the research program and how these partnerships that will help move knowledge into practice and/or policy.
- Detail how partnerships will leverage Network funding and/or outside resources to expand the reach of Kids Brain Health Network funds. Provide specific examples of partnership engagement in Network activities and outreach that can create sustainability.
- Detail the specific arrangements for partner matching funds that enhance Network activity and impact.

## **3. Knowledge Translation/Mobilization, Stakeholder Engagement and Commercialization**

Discussions with the KT Core and Kids Brain Health Network's senior staff is encouraged

- What are the specific ideas and plans for the roll-out of the knowledge gained for socio-economic benefits to Canadians.
- Describe family/patient/stakeholder engagement efforts in all aspects of the research plan
- Address the engagement of policy makers and the implementation of effective public policy through collaboration with the public sector.
- Identify how innovations will be valorized. Opportunities for commercialization should be identified.
- Discussions with the KT Core and Kids Brain Health Network's senior staff is encouraged

## **4. Training and Capacity Building of Highly Qualified Personnel (HQP)**

- The project will fund, and offer opportunities to, HQP to expand their skills, the engagement of graduate and postgraduate trainees in cross-discipline and/or cross-sector research activities, and the opportunity for participation in networking activities of Kids Brain Health Network.
- The project needs to demonstrate capacity building in the sector with which the proposal is aligned.
- Opportunities for partnership-engaging internships for career enhancing opportunities for trainees and other HQP are identified

## **5. Budget Request and Budget Justification**

### **C. Eligibility**

- Successful applicants must agree to share data collected through this project among Network investigators and attribute their research efforts in publications, presentations, and social media to the Kids Brain Health Network

# Kids Brain Health Network

## Request for Applications and Guide for 2018-2020 Funding

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- To submit an Application, applicants (project leaders and co-investigators) must be eligible to receive grant funding from CIHR, NSERC or SSHRC.
- In order to receive funds, successful applicants must be part of an Institution that is a signee of the NCE Network Agreement. If the parent institution is not currently a signee, they will need work with Kids Brain Health Network Central Office to execute a Network Agreement before funding can be issued.

### D. Summary of Application Process

- **Registration** of intent to submit an application. Utilizing the Registration Summary Template (downloaded from the RFA web page), provide the name of the PI, their affiliation, funding category applying to, and a brief concept/pitch, 1-2 brief paragraphs to summarize the research plan and prospective outcomes. The registrations will be published online to enable the applicants to find project commonalities that could lead to collaborative and/or combined efforts. This will also be a means for non-engaged researchers to seek connections with the various proposals.
- **Proposal Development:** A question and answer link is provided to help with questions in regard to proposal construction. It is appropriate to consult with Kids Brain Health Network Research Management Staff during the development stage to ensure appropriate considerations are accounted for in the planning of the proposal. The issues that these consultations address will be posted on the Q&A page.
- **Proposal Submission:** The application receipt deadline is Sept 11, 2017. Details for online electronic submission of the Application Package will be provided to Principal Investigators who have registered their proposal.
- **Proposal Review:** Reviews of each application will be undertaken by the Kids Brain Health Network Research Management Committee ([see http://www.neurodevnet.ca/about/people/rmc](http://www.neurodevnet.ca/about/people/rmc)), in consultation with the international Scientific Advisory Committee ([see http://www.neurodevnet.ca/about/people/isac](http://www.neurodevnet.ca/about/people/isac)), in line with the criteria outlined above and in the Application Guide. The Board of Directors will make the final decision as to which projects should be funded and the budgets based on the review recommendations.

The Application Templates and Guidelines and updates are available for download from the Kids Brain Health Network Research web page: <http://www.neurodevnet.ca/research/kbhn-research-funding>

### Registration Deadline May 31, 2017 (5pm PST)

### Submission Deadline September 11, 2017 (5pm PST).

Details for online submission of the Application Package will be provided to the Principal Investigator. Each Applicant will receive a username/password to a private-secure Kids Brain Health Network Dropbox. You will use this dropbox to submit all Application files and will have access to this dropbox until the deadline date and time, after which all submissions will be final.

Please direct submission queries to [funding@neurodevnet.ca](mailto:funding@neurodevnet.ca) or contact Dr. Doug Swanson at 604-875-2424 x4649.

## Application Development and Template

### Application Package Checklist

The Application Package will consist of six separate PDF documents.

1. The Signature Page
2. The Research Proposal (provided as Word and PDF format)
3. The Completed Budget Spreadsheet
4. Appendix A - Supporting Materials for Activities Plan
5. Appendix B - Letters of Support
6. Appendix C – Principal Investigator(s) Common CV

### Document 1. Signature Page

- Fill in the appropriate Principal Investigator and Proposal Information on this form page.
- Signatures of the Principal Investigator (Primary Applicant if Co-Principal Investigators) and Institutional Officials may be provided as electronic signatures or scanned PDF copy of an original signature page.

### Document 2. Research Proposal

- **Title Page**
- **Project Team:** List all participating members of the team: Principal Investigator, Co-Principal Investigators, Co-Investigators (Investigators requesting Kids Brain Health Network Funds) as well as Key Collaborators. Include their primary organizational affiliation and email contact. Provide a short description of the role of each team member listed and give their estimated contribution to the project.
- **Research Plan**
  - The Project Objectives and Executive Summary
  - Research Activity Plan appropriate to the category of funding that is sought including:
    - Research Excellence
    - Milestones and Deliverables
  - Networking and Partnerships

- Knowledge Translation Plan
- HQP Training Plan
- Budget Ask and Budget Justification

### Document 3. Budget Spreadsheet

See Budget Spreadsheet for instructions

### Document 4. Appendix A - Supporting Materials for Activity Plan

Please provide limited but specifically relevant supplemental materials to support your Activity Plan. These may include supplemental figures (primarily to provide necessary resolution for evaluation), brief non-standard protocols, key submitted manuscripts. Maximum of 10 pages provided as a single indexed PDF.

### Document 5. Appendix B - Letters of Support

Please provide scanned copies of letters of support for Partnerships, Collaborations, Matched Funding support, and Leveraging opportunities. Provided as a single indexed PDF.

### Document 6. Appendix C – Principal Investigator(s) Common CV

Please attach a PDF copy of the full Canadian Common CV (<https://ccv-cvc.ca/>) in the CIHR format (Academic CV Type) for Principal Investigator(s) only. Include a list of selected publications, most relevant to the proposal, as part of each investigator's CV. List of relevant publications for each PI should not exceed one page.

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#### \* Definition of Impact

"Impact is defined as an effect on, change or benefit to the economy, society, culture, public policy or services, health, the environment or quality of life, beyond academia. Impact **includes**, but is not limited to, an effect on, change or benefit to:

- The activity, attitude, awareness, behaviour, capacity, opportunity, performance, policy, practice, process or understanding of an audience, beneficiary, community, constituency, organisation or individuals in any geographic location whether locally, regionally, nationally or internationally.
- Impact **includes** the reduction or prevention of harm, risk, cost or other negative effects.
- Impacts on research or the advancement of academic knowledge within the higher education sector are **excluded** " -- from UK Research Excellence Framework at [www.ref.ac.uk](http://www.ref.ac.uk)

#### \*\*What a Cycle 3 Impact Team Might Look Like

**Cycle 3 Impact Team** – Teams whose key components are: 1) *Problem-based* topic (generated from stakeholder [importantly including patients, parents and the family] engagement) and *solution-driven* that will benefit the child living with a neurodevelopmental disability and the family; 2) Partner commitment to support and utilize network programs for the benefit of children with NDD, their families and community; 3) the topic goes across neurodevelopmental disabilities; 4) involves a multi-disciplinary team including stakeholders; 5) shows the promise of short term impact on the quality of



# Kids Brain Health Network Request for Applications and Guide for 2018-2020 Funding

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life of children with NDD and their families; 6) has longer term deliverables that promise changes in clinical practice, policy.