



**MCCI**  
Microelectronic Circuits Centre Ireland

# Microelectronic Circuits Centre Ireland (MCCI) Research Proposal 2020

Released

**Donnacha O’Riordan**  
**18 June 2020**

## 1 INFORMATION ON COMPLETING THE APPLICATION FORM

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Please do not fill out this form without first reading the documents describing the scope for proposals which accompanies. Also it is strongly advised to read the associated FAQ before filling out this application form. Fill out one application form for each proposal.

Please keep the information in this application form concise using bullet points where possible. There will be sufficient time allowed to elaborate on points and for further discussion after the application. The signed proposal must be submitted electronically to [paul.hyland@mcci.ie](mailto:paul.hyland@mcci.ie) no later than **14<sup>th</sup> Aug 2020**.

If you have any queries please consult the FAQ, contact [donnacha.oriordan@mcci.ie](mailto:donnacha.oriordan@mcci.ie) or [paul.hyland@mcci.ie](mailto:paul.hyland@mcci.ie).

## 2 SUBMITTER INFORMATION

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<b>PROPOSAL TITLE:</b>			
<b>PRINCIPAL INVESTIGATOR:</b>			
	Name		
	Department		
	Institution		
	Address		
	Telephone		
	Mobile		e-mail

OTHER CONSORTIUM PARTNERS *		
Contact Name	Institution / Company	Telephone

\* Only if there are collaborating partners in companies who are contributing or collaborators funded by this research in institutions other than the institution of the Principal Investigator

## 3 RESEARCH DESCRIPTION

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### 3.1 RESEARCH NEED

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What is the motivation for this research?

- What problem or gap will your research address?
- Who will benefit from a customer / end-user perspective?

(maximum ½ of a page)

### 3.2 RESEARCH OUTLINE

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Summarise what your team plans to do in this research.

- What is your research proposal about?
- What is the overall scope for the project/programme of work?
- How does it address the research need and fit to the MCCI research scope document?
- How might this lead on to future MCCI projects?

(maximum one full page)

### 3.3 INNOVATIVE ASPECTS

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What is new, novel or innovative about the intended research

- What novel circuits, architectures, applications or technologies are foreseen?
- How will this advance the current global state of the art?

(maximum ½ of a page)

### 3.4 PROJECT TEAM

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Summarise the key team members

- Who are the key team members including the PI and collaborators?
- What % of their time will they spend on the research?
- What is their relevant experience in brief?

(maximum ¼ of a page)

### 3.5 WORK DURATION AND MILESTONES

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Summarise the timeline and schedule for the project/programme of work?

- What is the start and finish date?
- What are the major milestones and dates?

(maximum ¼ of a page)

## 4 OUTCOMES AND METRICS

Outcomes of any research should align with the overall objectives of MCCI

- The table below should be filled out where possible with targets for each year
- This research should leverage additional competitively won funding proposed for association to MCCI
- The metrics should also include outcomes of any such leveraged associated funding
- If a metric is not applicable, then please fill 'N/A'

Metric	Year1	Year2	Year3	Year4
	Plan	Plan	Plan	Plan
<b>New industry members brought into MCCI</b>				
<b>Industry full-time-equivalents collaborating on the research</b>				
<b>Number of commercial licences</b>				
<b>Publications in Tier1 target conferences &amp; journals</b> ( <i>ISSCC, ESSCIRC, JSSC, TCAS I, APEC, VLSI Symp, CICC, RFIC Sym, MTT, IMS, Trans Bio</i> )				
<b>Publications in other conferences &amp; journals</b>				
<b>Number of trained people transferred to industry</b>				
<b>Number of start-ups or SMEs enabled or supported</b>				
<b>Number of academic staff/students working on research</b>				
<b>Level of leveraged co-funding anticipated (€)</b>				
<b>Level of leveraged industry cash anticipated (€)</b>				
<b>Level of leveraged industry in-kind anticipated (€)</b>				

In addition to the above table any other comments on how the research will have an impact on jobs and turnover in companies based in Ireland should be outlined.

(maximum ¼ page)

## 5 BACKGROUND IP

Please detail any background IP to be used in the research

- Please work with your Technology Transfer Office on this section
- Specify if background IP is needed for research only or for exploitation of foreground
- Specify if the background will be provided without charge including commercial use
- Please specify if there are any encumbrances on commercialisation
- Please include any background IP from industry partners

Background Description	Source	Required for commercial exploitation?	Provided with no charge for exploitation?	Any exploitation encumbrances
		Yes/No	Yes/No	Yes/No

If there are charges or encumbrances for commercial exploitation, please give details here

(maximum 1 page)

## 6 BUDGET ESTIMATES

This section should outline the funding for research being requested from MCCI in this call for proposals. It should also outline any committed co-funding from the institution of the Principal Investigator or academic collaborators if that applies.

<b>Cost Category</b>	<b>MCCI Contribution</b>	<b>Academic Institution Contributions</b>
	<b>Cash</b>	<b>Cash</b>
<b>Pay</b>		
<b>Equipment</b>		
<b>Consumables</b>		
<b>Travel (Domestic)</b>		
<b>Travel (Overseas)</b>		
<b>Subcontract</b>		
<b>Other non-pay</b>		
<b>TOTAL COSTS</b>		

## 7 SIGNATURES

### Signature of authorised officer of the PI institution (and collaborators, if applicable)

	PI Institution	Collaborating Institute (if any)
NAME:	_____	_____
POSITION:	_____	_____
SIGNATURE:	_____	_____
DATE:	_____	_____

### Signature of Principal Investigator (and collaborators, if applicable)

	PI Institution	Collaborating Institute (if any)
NAME:	_____	_____
POSITION:	_____	_____
SIGNATURE:	_____	_____
DATE:	_____	_____

## 8 LETTERS OF SUPPORT

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Although not essential to include with an application, letters of support from Industry or Consortium members, will be looked on favourably.

These should speak to the type of engagement the industry partners is interested in making with the proposed research project and can include any contribution, in-terms of cash or in-kind, the industry partner intends to make, as well as any impact this proposal may have on that business.

Any letters of support from Industry or consortium members may be attached here.