# [FRIA-B1 2016] FORMULAIRE DE DEMANDE / PROPOSAL APPLICATION FORM

FRIA 1e BOURSE [FRIA-B1 2016]

## 1. REFERENCE OF THE APPLICATION

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1.1 REFERENCE OF THE APP	LICATION			
Reference of the call	Appel/Call FRIA 2016			
	FRIA 1e BOURSE [FRIA-B1]			
	Research grant aiming at writing a doctoral thesis in 3 or 4 years			
Application number	29379721			
Applicant's first name	Atul Singh			
Applicant's last name	Arora			
Host institution	U.L.B.			
Type of grant for which you are applying	1e bourse - 1e année / 1st grant - 1st year			
1.2 SUPERVISION OF THE RE	SEARCH PROGRAMME			
Promoter's first name	Jérémie			
Promoter's last name	Roland			
Host institution U.L.B.				
Graduate school	Technology and Engineering Sciences			
Specialisation (e.g.: Zoology, Biochemistry)	Quantum Information			
Co-promotion Scientific collaboration without co-graduat thesis promoters.	tion during doctoral studies within a single university but with the specific expertise of 2 official			
As provided for in Article 2 of the Rules and Regulations , are you planning to prepare your PhD. with a co-promoter attached to one of the institutions listed in Appendix 1 of the Rules and Regulations?	No			
Joint-doctorate Scientific collaboration with co-graduation a double degree obtained within both university.	during full doctoral studies within both universities based on the same research work. This leads to ersities involved.			
Do you plan to prepare your Ph.D. under joint supervision?	No			

## 2. CURRICULUM VITAE OF THE APPLICANT - ACADEMIC BACKGROUND

2.1 EDUCATI	ON: DEGREES OBTAINED	
Diploma 1	Diploma level	Bachelor's degree
	Diploma title	Bachelor of Science
	Institution	Indian Institute of Science Education and Research, Mohali
	Graduation date	24/05/2016
	Honours obtained	9.4/10 (BS-MS combined)
Diploma 2	Diploma level	Master 180
	Diploma title	Master of Science
	Institution	Indian Institute of Science Education and Research, Mohali
	Graduation date	24/05/2016
	Honours obtained	9.4/10 (BS-MS combined)
Diploma 3	Diploma level	
	Diploma title	
	Institution	
	Graduation date	
	Honours obtained	
Diploma 4	Diploma level	
	Diploma title	
	Institution	
	Graduation date	
	Honours obtained	
Diploma 5	Diploma level	
	Diploma title	
	Institution	
	Graduation date	
	Honours obtained	

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Acade mic year:	Degree level:	Year with degree's				title:		Graduation date:		%	Honours:		Institution:		
2.3 EDUCATION: DETAILS PER YEAR OF STUDY (including passed, failed or aborted academic years) - in chronological order.  Complete the table below for any situation not mentioned in the previous point.															
Acade mic year:	Degree level:		vithin the e's level:	Cours	e title:	Gradu date:	ation		%	Hor	nours:		Institution:	:	Country:
2015- 2016	Master of Science	3ème a	année Physics		s Major					10/10			IISER Mohali		India
2014- 2015	Master of Science	2ème a	année Physics		s Major	1ajor				9.4/10			IISER Mohali		India
2013- 2014	Master of Science	1ère ar	nnée Physics		s Major					9.8/10			IISER Mohali		India
2012- 2013	Bachelor of Science	2ème a	année Basic Sciences						9.3/10						
2011- 2012	Bachelor of Science	1ère ar	e année Basic Sciences							8.5/	10				
2.4 MASTER THESIS OR EQUIVALENT															
Title of the master thesis or equivalent Contextuality in a Deterministic Quantum Theory															
Promoter / Director Prof Arvind															
Honours (or %) obtained A															
Please upload your master thesis in PDF format  ThesisBlankFix.pdf (Document attached to the application)										n) 					
2.5 ACADEMIC MARKS & RANKING															
Within the days after the validation of your form, the F.R.SFNRS will send you a message explaining the procedure regarding the sending of the « ranking » document. NOTICE: this document shall NOT be sent by e-mail NOR shall it be downloaded in your application form on Semaphore  The document shall be filled in since the ranking is an element taken into account for the evaluation.															

EDUCATION: DETAILS PER YEAR OF STUDY (including passed, failed or aborted academic years) - in

chronological order.

## 3. CURRICULUM VITAE OF THE APPLICANT - OTHER INFORMATION

21 60	SIENTIFIC	AWADD		MOI I	DC.								
3.1 <b>S</b> (	CIENTIFIC	AWARD:	S AND HO	DNOU	RS -								
Name of the	lame of the award or honours Institution/Company name Awarding year												
Junior Resea	esearch Fellowship (JRF-NET) CSIR-UGC, India 2,016												
	of Merit for best academic e (even semester)  IISER Mohali  2,015												
DAAD WISE	fellowship for	internship i	n Germany	DAAI	DAAD, Germany 2,015								
	Merit for best (odd semeste			IISEF	R Mohali				2,014	2,014			
KVPY fellows	ship for pre-Ph	nD studies		DST,	India				2,011	2,011			
3.2 <b>P</b> l	UBLICATIO	NS											
Do you have	e any publica	tions?											
Yes/Oui													
publications	_FRIA_atul.pd	lf (Documer	nt attached to	the ap	plication)								
3.3 FULL TEXT VERSION OF YOUR PUBLICATIONS													
If you have publications, you can add the full text version of maximum 2 of them (master thesis excluded), which will be made available to the members of the jury.													
1607.03498v1.pdf (Document attached to the application)													
PhysRevA.9	92.062107.pdf	(Document	attached to	the app	olication)								
	ROFESSIO and curre												
From	То		Institution/		City		Count	ry	Position	Full-time position	Part-time position, %		
01/05/2012	01/07/2	2012	IISER Moha	ali	Mohali		India		Summer Intern	Yes/Oui			
01/05/2014	05/2014 01/07/2014 IISER Mohali Mohali India Sui				Summer Intern	Yes/Oui							
3.5 PREVIOUS RESEARCH STAYS (mobility) Previous research stays (more than 30 days) outside your main host institution.													
From	То	Institutio	n/Compan	City		Country	/	Position					
170111		y name											
01/05/2013	01/07/2013	I		New [	Delhi	India		Summer Ir	ntern				

No/Non

Over the last 5 years, have you been professionally inactive for more

than 2 months?

#### 4. INFORMATION ABOUT Ph.D. ORGANISATION

4.1 Ph.D. ORGANISATION Article 11 of the Rules and Regulations: "The 1st Grant scheme starts as from the 1st of October. The starting date can be postponed with the agreement of the Secretary-Rapporteur of the FRIA". Attention: previous months between 1st October and the starting date of the grant shall not extend the duration of the grant, under any circumstances If you wish your grant to begin beyond 1st October 2016, please indicate the date foreseen. If you wish your grant to begin beyond 1st October 2016, please justify the reason. (e.g. ongoing contract or grant until xxx). 4.2 **SCIENTIFIC SENIORITY** 0 Number of years dedicated to research after obtaining the secondcycle diploma HAVE YOU ALREADY STARTED TO WORK ON YOUR Ph.D. THESIS, ON THIS SPECIFIC TOPIC? If yes, fill in the table below Full-time? Did you obtain a From Tο If part time, indicate Funding source (if applicable) the percentage grant/compensation 4.4 ADDITIONAL COURSES RELEVANT FOR THE PREPARATION OF YOUR Ph.D. Course title Institution **Number of ECTS** Included in a Ph.D. programme? PLANNED RESEARCH STAYS (mobility) Research stays of more than 30 days that you plan to do outside your main host institution. From То Institution/Company name City Country **Position** ADDITIONAL SCIENTIFIC ACTIVITIES including relevant activities for the present project (in this case, 4.6 please specify them clearly) Indicate, if applicable, your additional scientific activities (e.g. supervising practical works, taking part in conferences, assisting research...)

## 5. DESCRIPTION OF THE RESEARCH PROGRAMME

F1 PROPOSAL - O	ENERAL INFORMATION		
	ENERAL INFORMATION	N	
Main language of the propos	sal		English/Anglais
Title of the project			
Shortened title or acronym	of the proposal		
Abstract of the project			
5.2 <b>SUBJECT ARE</b>	A AND JURY		
Applicants are entitled to se	elect:		
be endorsed by the Presider instead shall accept or refus	nt of the jury, unless the Pres	ident is from the	ne subject area selected. However, the selection of the subject area must he same university as the applicant. In that case, the Vice-president select two descriptor fields at least corresponding to their subject area.
- The jury related to the sub assign the applicant to anot		n case of confli	ict of interest and depending of the number of applicants, the FRIA may
No change of the subject ar	ea will be accepted once the a	applicant has v	validated the application form.
5.3 <b>DESCRIPTOR</b> I	FIELD OF YOUR PROPO	)SAI	
			place them in order of relevance
IMPORTANT: you have to co	ontact your promoter in order omposition of the juries is ava	to complete th	place them in order of relevance. ne descriptor fields and unrestricted keywords.
	Relevance	Selected des	criptors
1st descriptor			
2nd descriptor			
3rd descriptor			
4th descriptor			
5th descriptor			
6th descriptor			
If you chose only one			

descriptor relevant to your subject area selection, please justify it	
Optional: in case you are conducting a sustainable development-oriented menu below.	ed research project, you can select a descriptor listed in the drop down
	l .
Unrestricted keywords :	
5.4 RESEARCH PROGRAMME PROPOSAL	
Please download and complete the template provided and upload it after you have saved it in a PDF format.  The F.R.SFNRS insists on strict compliance of the number of pages allowed for documents that shall be enclosed with the application form and stresses again the sovereign consideration of the Jury in case the file would exceed the applicable page limit.	
Does your research involve experiments or samples on <u>human</u> <u>being/material</u> ?	No/Non
Does your research involve animal experiments?	No/Non
Does your research involve <u>other ethical issues</u> than the ones mentionned above?  Note that if available forms hereabove are not relevant for <u>those particular ethical issues</u> , please return this document.	No/Non

### 6. ACADEMIC REFEREES

#### 6.1 **ACADEMIC REFEREES**

<u>In addition to your promoter</u>, please provide the name of two scientific referees (members of the academic staff of a scientific institution professor, lecturer - CQ, MR or DR of the F.R.S.-FNRS), who are able to give their opinion on your application. The FRIA will contact them (<u>Please check the validity of the E-mail adresses provided</u>).

See informations required from referees

Note: Your promoter (not to be included below) will also be required to provide a reference letter at the time of the online validation step of your application.

First name	Last name	Email
Arvind	Arvind	arvind@iisermohali.ac.in
Abhishek	Chaudhuri	abhishek@iisermohali.ac.in

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#### 7. REFEREES FROM INDUSTRIAL OR AGRONOMIC WORLD

7.1 JUSTIFICATION FOR THE PROSPECTS OF INDUSTRIAL OR AGRONOMIC APPLICATIONS **Article 2 of the FRIA Rules and Regulations:** FRIA grants are strictly restricted to graduates with an academic education who aim to develop their research career in the industry or agriculture. For this purpose, they shall pursue their studies leading to a Ph.D. in a university of the French-speaking Community of Belgium under the supervision of a promoter permanently appointed or on probation (equivalent to a permanent appointment) in that host institution at the time of the validation deadline fixed for the academic authorities (rectors) and a co-promoter (if any) from one of the institutions listed in Appendix 1. Does your doctoral work have short-term or long-term of industrial or agronomic applications prospects? - Description and justification of the prospects - If there are no prospects, please indicate "Not applicable" 7.2 REFEREES FROM INDUSTRIAL OR AGRONOMIC SPHERE ATTENTION: : in case of short-term prospects, please indicate the name of two referees from the industrial or agronomic sphere that you have contacted (Belgian companies with some exceptions). Important: he FRIA will contact them and they will be required to provide this document by 30thSeptember at the latest. First name Last name Institution/Company name **Email** 

#### 8. FINAL SECTION

8.1 **APPENDICES** Administrative appendices **IMPORTANT**: Any modification or correction of the proposal will not be accepted after the closing date of the call (validation deadline fixed for the applicants)! 8.2 LANGUAGE IN WHICH THE PROJECT WILL BE DEFENDED In which language do you wish to defend your project? English / Anglais Note that in case you are interviewed, you may decide to take your oral examination in French or in English, regardless of the language used to fill in the application form. 8.3 **AFFIDAVIT** I declare that I have read the Rules and Regulations of the fellowship for which I am applying. I hereby confirm that the information provided in the proposal is correct and complete. I hereby accept that any omission or false statement on my part, even if unintended, may lead to the cancellation of my application. I note that the names (applicant, possible promoter and host institution) and the data provided in my application file (title, abstract and descriptors) will be made publicly available if the funding is granted, particularly on the website of the F.R.S.-FNRS. I note that the comprehensive description of my proposal will only be available for evaluation purposes of my application within the framework of the "FRIA"call of the F.R.S.-FNRS. You will be informed of the date of your oral examination in early October. You are required to take the examination at the F.R.S.-FNRS, 5 rue d'Egmont, 1000 Brussels. Note that there is no possibility for any applicant to attend this interview on Skype or via any other means.

Juries meetings will take place from 10th October 2016 to 14th November 2016. The composition of the juries will be updated on the website during the second week of October.