

Internal Use only:

Proposal Number:

Date Rec:____

Data Emailed:

Date Analysed:____

_ Return Requested? 🗆 Yes 🛛 No

(Note: The proposal will be assessed by the panel without sight of the pages identifying the researchers involved)

Section A: Project Title

Project Title	RCUK Grant Reference (if applicable)

Section B: Proposal Details

1. Name and email address of the Principal Investigator (PI) for this proposal

Title	Name	Email Address

2. Contact details of PI

Postal Address	Contact Telephone Number	
	Postcode	
By ticking this box, I give Cardiff PiFM consent to store the above details to enable tracking and discussion of our project data. I understand that my details will not be used for communication other than those explicitly stated at		

http:/www.pifm.uk/mailing-list2/

3. Co-investigators

Please list the primary investigator (PI) and up to two Co-I's. All visitors to Cardiff should be either PI or Co-I. These researchers (including students) are authorised by the PI to liaise with Cardiff PiFM.

Role (PI or Col)	Primary Co-I Name	Email Address	Telephone N ^o
Role	Additional Co-I Name	Email Address	Telephone Nº
PDR – Postdoctoral Researcher PGR – Postgraduate Researcher ACD – Permanent Academic NUK – Non-UK based Researcher			
By ticking this box, I/we give Cardiff PiFM consent to store the above details to enable tracking and discussion of our project data. I understand that my details will not be used for communication other than those explicitly stated at			

http:/www.pifm.uk/mailing-list2/

4. Has your research group previously made use of the Cardiff PiFM facilities?

5. Is this proposal a:

□ Rapid response proposal (4-24 hours instrument time)

□ Standard proposal (1-5 days instrument time)

□ Block allocation proposal (more than one visit)

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 Please briefly detail any publications that resulted from previous analyses performed at the Cardiff PiFM facility, this may include publications submitted or in press.
By submitting this form you consent to having these publications listed on the Cardiff PiFM website as promotion for the facility.

Corresponding Author (Typically project PI)	Journal	Volume	Pages	Year

7. Will one or more investigators attend the analysis in Cardiff or send samples via post?
□ Attend (recommended) □ Send samples via post (not available for block allocation)



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Proposal

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Project Title	RCUK Grant Reference (if applicable			

i. Abstract. Please provide a short description of your proposal, you should include background to the proposal, the research question to be addressed and the methodology, including data acquisition and data analysis methods.

□ Block allocation (These should form part of expressed calls and PI's should use the box below to detail the number of visits and expected length of each visit)

ii. Please tick the general themed area of your research:				
🗆 Energy Storage / Battery	Semiconductor			
Novel Materials & Biomaterials	Electronics			
🗆 Geology	Fibres / Nanomaterials			
	med area of your research: Energy Storage / Battery Novel Materials & Biomaterials Geology			



Section C: Sample details

Please describe your samples to us in the simplest terms. In the space provided, please detail any extra information that might be useful not covered in your proposal. For example, what is the material of interest, what is the substrate (if any), how will you be preparing your samples for analysis?

Note: Typical sample sizes range from a few millimetres to a few centimetres. An ideal size is 10 mm x 10 mm. The longest dimension should be less than 60mm and ideally with a maximum thickness of 20 mm. If you are likely to exceed these dimensions, please speak to Cardiff PiFM staff prior to completing this section

Noture of Comple	Solid (includes cats particles on Si Wafer)			
Nature of Sample	□ Other (please specify below)			
Total Number of	Please contact Cardiff PiFM Staff is the number of		PiFM Staff is the number of	
Samples			samples is greater than 15	
Typical Sample Size	X (mm): Y (mr		n):	Z (thickness) (mm):
Sample Composition (please provide brief details in the right hand panel)	🗆 Inorganic			
	Organic/Polymer			
Please provide any further details you may feel are useful with respect to the analysis of your samples below				
(e.g. use of conductive clips, cluster etch)				

Are your samples magnetic / likely to respond to a magnetic field?	🗆 Yes 🛛 No
Are your samples likely to contain volatile hydrocarbons (e.g. solvents)?	🗆 Yes 🛛 No
Do your sample contains radioactive species? (detail in space above)	🗆 Yes 🗆 No

Elemental Analysis Required (Please detail the high resolution spectra you require recorded & pass energies, Survey scans are always recorded)



Control of Substances Hazardous to Health (COSHH)

We have developed the following COSSH assessment form to be associated with your project. As a facility receiving and working with many samples every month, from a diverse range of research fields, we must ensure that we know about the hazards and risks involved with the analysis.

At Cardiff PiFM, we appreciate that some samples are in fact considered non-hazardous, and in these cases we are happy for you to state this on the COSHH assessment, provided that documentation to support this, such as a Material Safety Data Sheets (MSDS), are included. Ultimately, the COSHH assessment is being performed and approved by Cardiff PiFM staff, therefore we request that some of the Hazards, Risks and controls are identified by the researcher sending samples to us, as it is you who is most familiar with the material.

Do **NOT** send samples until you have explicit acceptance from us. If in doubt, please contact us and do not send samples.



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COSHH Assessment

Sections highlighted in blue are to be completed by the researcher sending the samples to us.

1. Project Details

Project Title	
Date of Assessment	
Responsible Person:	Staff of Cardiff PiFM Facility, c/o Prof. Philip Davies (Cardiff PiFM Director)
Location of Work:	Technology Transfer Hub, Cardiff University

2. Hazards. Please describe all Hazards associated with your samples

Hazard Type		Describe Hazardous Substance, include any Workplaces Exposure Limits (WEL) as indicated by the appropriate Materials Safety Data Sheet (MSDS)
Nanoparticles	□ Yes	
6 Flammable	🗆 Yes	
Corrosive	🗆 Yes	
Harmful/Irritant	🗆 Yes	
Oxidising	🗆 Yes	
Explosive	🗆 Yes	
Toxic	□ Yes	
Carcinogen/Mutagen	🗆 Yes	
Radioactive	□ Yes	
? Other Hazards	□ Yes	

3. Risks: Please describe all Risks associated with these Hazardous Substances.

Human disease	es, illnesse	es or condition	ns assoc	iated with Hazard	dous Substances
Potential rout	es of expo	sure			
	🗌 Inges	tion 🗌 Inie	ection	□ Absorption	Other (select all that apply and detail below)
			cetton		
			-		
Maximum amo	ount or co	ncentration u	sed		
🗆 Negligihle		🗆 Medium	🗌 Hig	h (detail below)	
Potential for e	xposure to	o hazardous s	ubstanc	es	
🗆 Negligible	🗆 Low	□ Medium	🗆 Hig	gh (detail below)	



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Use of hazard	dous substa	ances				
Small scale	le 🗌 Mea	lium scale	Large scale	e 🛛 Other (detail below)		
Analysis of ha	azardous su	bstances is lir	nited to sma	I quantities in the lab environr	nent.	
Frequency of	Frequency of use					
🗆 Daily 🛛	Weekly	□ Monthly	🛛 Other (d	etail below)		
One-off analy	One-off analysis of a set of samples, typically limited to a small number of days.					
Who might b	oe at risk					
🛛 Staff 🛛	Students	⊠ Visitors	🗌 Public	□ New/expectant mothers	🗌 Other (detail below)	
Only Cardiff PiFM staff and visitors to the Cardiff PiFM laboratory will have any opportunity to come in to contact with any potentially hazardous substance						

Assessment of risk to human health (prior to use of controls)							
🗌 Effectively zero 🔲 Low 🗌 Medium/Low 🗌 Medium 🗍 High (select one)							
Assessment of risk to environment (prior to use of controls)							
Effectively zero	🗆 Low	□ Medium/Low	🗆 Medium	□ High (select one)			

4. Controls to reduce Risk.

Please describe all Controls recommended to reduce the Risk associated with these Hazardous Substances.

Transport of Hazardous Substances to the facility (describe your packaging and delivery method)						
Recommended Personal Protective Equipment (PPE)						
🗆 Safety glasses 🛛 Gloves 🔷 Lab coat 🔷 Respirator (see RPE section below) 🔷 Other (please detail)						
Respiratory Protective Equipment (RPE) (if applicable)						
🗆 Disposable mask 🛛 🛛 Respirator (please detail) 👘 Other (please detail)						

Containment				
⊠ Laboratory	oxtimes Controlled area	\Box Glove box	\Box Fume hood	Other (detail below)

Analysis is performed in the Cardiff PiFM laboratories which are all access-controlled areas suitable for handling of hazardous substances. Where required, glove box and fume hoods are available in the laboratories.

Storage of Hazardous Substances

Samples are stored in segregated, cool, dark, dry storage units securely stored within the laboratory environment. Samples are only stored for the duration of the project.

Waste management and disposal

Samples may be returned to the user if requested. For non-returns disposal is made in line with RCaH (or partner university) waste disposal protocols as defined in the respective document.

Instruction, training and supervision				
Special instructions are required to safely carry out the work				
Special training is required to safely carry out the work				
Cardiff PiFM staff are all trained in the correct and safe usage of all PiFM instrumentation and associated facilit	ies			
Work may not be carried out without direct personal supervision	P: ••V			
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Work may not be started without the advice and approval of a supervisor	No
Work can be carried out without direct supervision	Yes



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5. Emergency Procedures

Emergency procedures							
Refer to Material Sa	Refer to Material Safety Data Sheet (MSDS) for material under analysis.						
Minor spillage or re	lease						
Specify procedure	Isolate and clean u	Isolate and clean up area with reference to MSDS					
Othersetiens	Evacuate and secu	re laboratory / area			No		
Other actions	Inform competent person (e.g. Director, safety officer, PI)						
Major spillage or release							
Specify procedure	Isolate and clean up area in accordance with MSDS. Note that due to small sample sizes, minor/major are treated equally						
	Evacuate building by fire alarm						
Other actions	Call security and fire brigade						
	Inform competent person (e.g. Director, safety officer, PI)						
Fire Precautions			First aid				
Due to small quantit	ies, specific fire prec	autions are not needed.	Refer to MSDS				
Emergency contacts							
Name		Position		Telephone			
Prof. Philip Davies		Facility Director		029 20 874072			
Dr. David Morgan		Technical Manager		029 20 870766			
TRH Security / Safety	/	Security / Safety		Ext			

6. Assessed Risk Estimation Matrix

	Likelihood of Harm				
Severity of Harm	High	Medium	Low	Negligible	
Severe	High	High	Medium	Effectively Zero	
Moderate	High	Medium	Low / Medium	Effectively Zero	
Minor	Low / Medium	Low	Low	Effectively Zero	
Negligible	Effectively Zero	Effectively Zero	Effectively Zero	Effectively Zero	

7. Approval

Assessor (PI / Assigned User)						
Name Signature Dat						
Assessor (Cardiff Staff Member)						
Name Signature Date						
	Signature Signature					

