Swydd Ddisgrifiad

Prifysgol Wrecsam
Wrexham University

Cyfadran/Adran	Cyfadran y Celfyddydau, Cyfrifiadura a Pheirianneg
Adran	Peirianneg
Teitl y Swydd	Cymrawd Ymchwil mewn Peirianneg Deunyddiau Cyfansawdd
Yn atebol i	Yr Is-ganghellor Ymchwil
Gradd	Cymrawd Ymchwil

Cyd-destun

Bydd deiliad y swydd yn ymuno â Chyfadran y Celfyddydau, Cyfrifiadura a Pheirianneg fel Cynorthwyydd Ymchwil mewn Peirianneg Hydrogen. Bydd yr ymgeisydd llwyddiannus yn chwarae rhan ganolog yn y broses o gynnal ymchwil arloesol yn y Ganolfan Opteg a Pheirianneg Menter newydd, gan gydweithredu gyda phartneriaid diwydiant, cyhoeddi erthyglau ysgolheigaidd a sicrhau cyllid i ddatblygu maes deunyddiau cyfansawdd.

Mae swydd y Cynorthwyydd Ymchwil mewn Peirianneg Deunyddiau Cyfansawdd yn gofyn am unigolyn profiadol, llawn cymhelliant i arwain datblygiad amcanion a chynigion ymchwil, gan sicrhau darpariaeth deilliannau mesuradwy o fewn amserlenni penodol.

Drwy dynnu ar brofiad ac arbenigedd hydrogen a datgarboneiddio, bydd deiliad y swydd yn cydweithredu'n effeithiol gyda'r diwydiant lleol a'r gymuned academaidd, gan yrru prosiectau tuag at amcanion strategol. Yn ganolog i'r swydd, mae cyfathrebu canolog ac ymgysylltiad yr holl bartneriaid, gan sicrhau diweddariadau cynnydd a meithrin ymdrechion cydweithredol i fodloni terfynau amser o fewn maes peirianneg deunyddiau cyfansawdd.

Prif Atebolrwydd

Mae'r swydd hon yn gofyn am Uwch Gymrawd Ymchwil profiadol a hynod frwdfrydig i ddatblygu amcanion a chynigion ymchwil, gan annog y prosiect i gyflawni canlyniadau mesuradwy o fewn y cyfnod amser penodedig. Bydd deiliad y swydd yn defnyddio'i brofiad rheoli prosiect a masnachol i weithio ochr yn ochr â phartneriaid cyllid a'r gymuned academaidd wrth gyflawni amcanion strategol y prosiect.

Fel rhan o'r rôl, bydd deiliad y swydd, drwy ei arweiniad a'i brofiad, yn gyfrifol am gyfathrebu ac ymgysylltu â phawb sy'n ymwneud â'r prosiect gan eu diweddaru nhw ynglŷn â chynnydd, gweithio ar y cyd i fodloni terfynau amser, amserlennu, a gwneud penderfyniadau i sicrhau bod hyn yn digwydd. Rhwydweithio yn y gymuned academaidd ac ehangach er mwyn codi proffil y gwaith ymchwil a chynyddu effaith bosibl y canfyddiadau. Arwain y gwaith o rannu'r ddysg ar draws Prifysgol Wrecsam a chyda'n partneriaid a'n cymunedau allanol.

Cydgysylltu â'r Swyddfa Ymchwil ac arwain y gwaith o goladu'r dystiolaeth sydd ei hangen i gefnogi'r gwaith o gyflwyno astudiaethau achos effaith ar gyfer yr adran. Sicrhau bod effaith y prosiectau ymchwil yn cael ei hasesu o astudiaethau achos sy'n dogfennu'r ymchwil sylfaenol a'r effaith sy'n deillio o gymhwyso a defnyddio'r ymchwil hwnnw ar gyfer y REF.

Tasgau Allweddol

Tasgau a chyfrifoldebau allweddol y swydd hon fydd:

- Datblygu amcanion, prosiectau a chynigion ymchwil, gwneud penderfyniadau ar fethodolegau ymchwil, yn aml drwy gydweithio â chydweithwyr ac yn amodol ar adegau ar gymeradwyaeth gan bennaeth y rhaglen ymchwil.
- Arwain a gwneud gwaith ymchwil ar y cyd o safon uchel, gan weithio'n annibynnol ac fel rhan o'r tîm ymchwil a'r gymuned academaidd ehangach i gyflawni nodau'r prosiect.
- Darparu cymorth rheolaeth llinell ar gyfer y cydweithwyr RA/PDR o fewn y prosiect, os yw'n berthnasol.
- Bod yn rheolwr llinell ar y cydweithwyr RA/PDRA o fewn y prosiect os yn berthnasol, gan roi mewnbwn, rhannu sgiliau a phrofiad i lywio trywydd y prosiect, mentora cydweithwyr RA/PDRA i ddatblygu eu technegau ymchwil a gwneud penderfyniadau gwybodus i gyflawni nodau'r prosiect.
- Cefnogi'r gwaith o gyfathrebu canlyniadau ymchwil i ystod eang o gynulleidfaoedd, gan gynnwys drwy ymgysylltiad cyhoeddus, teilwra cynnwys, ac arddull i ystod eang o arbenigwyr a chynulleidfaoedd nad ydynt yn cynnwys arbenigwyr.
- Datblygu syniadau ar gyfer canlyniadau ymchwil neu i'w cymhwyso.
- Cynhyrchu allbynnau ymchwil. Gall yr allbynnau hyn fod yn addas i'w cyflwyno i'r Fframwaith Rhagoriaeth Ymchwil (REF) cenedlaethol.
- Adnabod ffynonellau cyllid a chynorthwyo gyda pharatoi cynigion a sicrhau cyllid ar gyfer ymchwil.
- Cyfranogi a datblygu cysylltiadau ymchwil allanol â thimau ymchwil academaidd eraill wrth weithio â thimau ymchwil ac arweinwyr cyfadran ehangach Prifysgol Wrecsam i ddatblygu'r ymchwil academaidd.
- Mynychu a chyfrannu at gyfarfodydd cydweithredol i ddatblygu prosiectau ymchwil.
- Gweithio gyda'r Arweinydd prosiect/Prif Archwilydd, gan ymchwilio i a mynd ar drywydd cyfleoedd cyllid ar gyfer gweithgareddau ymchwil cydweithredol y tu hwnt i'r nodau prosiect presennol.
- Lle bo'n briodol, cefnogi darpariaeth cyrsiau a gweithdai addysg, sy'n berthnasol i'r prosiect ymchwil.
- Gweithredu fel aelod gweithredol o gymuned ymchwil y Brifysgol a chwarae rhan yn y broses o ddatblygu a hyrwyddo diwylliant ymchwil cadarnhaol a chynhwysol.
- Yn ogystal, bydd deiliad y swydd yn gyfrifol am adnabod a chydlynu unrhyw ofynion a chymorth ychwanegol.

Nodweddion Arbennig

Efallai y bydd angen teithio i gyfarfodydd a digwyddiadau rhanddeiliaid, ac i gasglu data yn ôl yr angen.

Mae’r gallu i gyfathrebu drwy gyfrwng y Gymraeg yn ddymunol.

Dyletswyddau Cyffredinol

Byddwch yn sicrhau bod systemau a gweithdrefnau rheoli priodol ar waith er mwyn bodloni'ch dyletswyddau a'ch cyfrifoldebau iechyd a diogelwch a nodir ym mholisi iechyd a diogelwch y Brifysgol. Yn benodol, byddwch yn sicrhau bod asesiadau risg priodol yn cael eu gwneud yng nghyswllt peryglon sylweddol ac yr ymgymerir ag arolygon diogelwch ar gylchred blynyddol, o leiaf, ym mhob gweithle dan eich rheolaeth chi.

Cyfrifoldeb cyflogeion yw gweithredu Polisi Cyfle Cyfartal y Brifysgol yn eu maes cyfrifoldeb eu hunain ac yn eu hymddygiad cyffredinol.

Mae gan yr holl staff gyfrifoldeb am hyrwyddo gofal cwsmer o ansawdd yn eu meysydd cyfrifoldeb eu hunain.

Rhaid i staff fod yn ymwybodol o ymrwymiad y Brifysgol i Gynaliadwyedd.

Rhaid i bob aelod o staff hyrwyddo ymddygiad iach ac iechyd meddwl a llesiant cadarnhaol.

Disgwylir i ddeiliaid swydd gydymffurfio â'r broses Adolygu Datblygiad Proffesiynol, gan gyfrannu at osod targedau i helpu'r gwaith o fonitro perfformiad a datblygiad yr unigolyn.

Byddwch yn asesu anghenion hyfforddiant a datblygiad pob aelod o staff dan eich rheolaeth i sicrhau eu bod yn cael eu cefnogi’n ddigonol mewn perthynas â'u cyfrifoldebau yn y gwaith.

Dyletswyddau perthnasol eraill sy'n gymesur â gradd y swydd, a all gael eu neilltuo gan y Rheolwr, mewn cytundeb â deiliad y swydd. Ni ddylid gwrthod cytundeb o'r fath yn afresymol.

Mae’r cyfrifoldebau allweddol sydd wedi'u cynnwys yn y swydd ddisgrifiad hwn yn rhai nodweddiadol; nid ydynt yn gynhwysfawr. Gellir addasu dyletswyddau a chyfrifoldebau mewn trafodaeth â deiliad y swydd.

Mae’r Brifysgol yn un o lofnodwyr y Concordat Datblygu Ymchwilwyr a’r Concordat Uniondeb Ymchwil. Mae disgwyl i ddeiliad y swydd lynu wrth ofynion y ddarpariaeth hon, a’u hyrwyddo.

Disgwylir i'r holl ddeiliaid swydd yn y Gyfarwyddiaeth allu cynnig cymorth ar draws pob maes, y tu hwnt i'w tîm uniongyrchol, ar gais y Cyfarwyddwr ac yn gymesur â'u sgiliau, eu gwybodaeth a’u profiad.

Adolygiad

Mae hwn yn ddisgrifiad o'r swydd adeg ei chyhoeddi. Arfer y Brifysgol o bryd i'w gilydd yw adolygu a diweddaru swydd ddisgrifiadau er mwyn sicrhau eu bod yn adlewyrchu natur gyfredol

y swydd a gofynion y Brifysgol yn gywir ac i ymgorffori newidiadau rhesymol pan fo angen, mewn ymgynghoriad â deiliad y swydd.

Manyleb Person

Prifysgol Wrecsam Wrexham University

Teitl y Swydd: Cymrawd Ymchwil mewn Peirianneg Deunyddiau Cyfansawdd

Er mwyn cael eich rhoi ar y rhestr fer, mae'n rhaid i chi ddangos eich bod yn diwallu pob un o’r meini prawf hanfodol a hynny o’r meini prawf dymunol ag sy’n bosibl. Pan fydd gennym nifer fawr o geisiadau sy'n diwallu’r holl feini prawf hanfodol, byddwn wedyn yn llunio’r rhestr fer gan ddefnyddio'r meini prawf dymunol.

Meini Prawf Dethol

	Priodoleddau	Eitem	Meini Prawf Perthnasol	Dull Adnabod	Pwysigrwydd
1	Sgiliau a Galluoedd	1.1	Hyblygrwydd a gwybodaeth i gydlynu gwaith cydweithwyr er mwyn cyflawni ystod eang o dasgau, gyda dull datrys problemau agored, rhagweithiol creadigol a chefnogol.	Ff, C	H
		1.2	Y gallu i asesu, dehongli a gwerthuso canlyniadau gwaith ymchwil.	Ff, C	H
		1.3	Sgiliau ysgrifennu, cyfathrebu a chyflwyno rhagorol, yn gallu mabwysiadu arddull briodol ar gyfer ystod o gynulleidfaoedd arbenigol a chynulleidfaoedd o bobl nad ydynt yn arbenigwyr	Ff, C	H
		1.4	Sgiliau rhyngbersonol a gweithio mewn tîm cadarn. Yn canolbwyntio ar ymgysylltiad i gyflwyno canlyniadau.	Ff, C	H
2	Gwybodaeth Gyffredinol ac Arbenigol	2.1	Meddu ar wybodaeth arbenigol ddigonol i ddatblygu rhaglenni a methodolegau ymchwil.	Ff, C	H
		2.2	Bod yn brif aelod cydweithredol o dîm ehangach, gyda phrofiad o weithio’n adeiladol ag uwch staff a chefnogi gwaith staff llai profiadol neu bartneriaid anacademaidd sydd	Ff, C	H

			ynghlwm â phrosiectau i gyflawni canlyniadau'r prosiect.		
		2.3	Dealltwriaeth o ddulliau addasol i fynd i'r afael ag ystod eang o dasgau, gyda dull datrys problemau agored, rhagweithiol a chreadigol.	Ff, C	H
3	Addysg a Hyfforddiant	3.1	PhD neu gyfwerth mewn pwnc perthnasol.	Ff, C	H
		3.2	Aelod o gorff proffesiynol perthnasol sy'n gymesur â lefel y swydd hon.	Ff, C	H
4	Profiad Perthnasol	4.1	Tystiolaeth o gynhyrchu allbynnau ymchwil o ansawdd a chefnogi'r dasg o'u cyflwyno.	Ff, C	H
		4.2	Profiad amlwg o reoli prosiectau a thimau ymchwil.	Ff, C	H
		4.3	Dealltwriaeth amlwg o arfer da mewn perthynas ag ymddygiad ymchwil (gan gynnwys o ran moeseg ymchwil, uniondeb ymchwil a thrin data ymchwil).	Ff, C	H
		4.4	Y gallu amlwg i fod yn brif aelod cydweithredol o dîm ehangach, gan weithio'n adeiladol gydag uwch staff a chefnogi gwaith myfyrwyr neu staff llai profiadol sy'n ymwneud â phrosiectau.	Ff, C	H
		4.5	Profiad amlwg o brosiectau cydweithredol, yn ddelfrydol yn cynnwys cydweithrediadau AU/diwydiant mewn maes perthnasol.	Ff, C	H
		4.6	Profiad amlwg o gyfathrebu syniadau cysyniadol i amrywiaeth o bobl.	Ff, C	H
5	Gofynion Arbennig	5.1	Y gallu i gyfathrebu drwy gyfrwng y Gymraeg.	Ff, C	D
		5.2	Ymrwymiad i weithio hyblyg a theithio perthnasol rhwng safleoedd lle cynhelir gweithgareddau.	Ff, C	H
Dyddiad Adolygu					

Allwedd	**Dull Adnabod**	**Ff**	Ffurflen Gais
		C	Cyfweliad
		P	Prawf
		T	Copi o Dystysgrifau
		Rh	Rhoi Cyflwyniad
		G	Asesiad Grŵp
	Pwysigrwydd	**H**	Hanfodol
		D	Dymunol

Job Description

Prifysgol Wrecsam
Wrexham University

Faculty/Department	Faculty of Arts, Computing and Engineering
Section	Engineering
Job Title	Research Fellow in Composite Materials Engineering
Reports to	Pro Vice Chancellor for Research
Grade	Research Fellow

Context

The post holder will join the Faculty of Arts, Computing and Engineering as a Research Fellow in Composite Materials Engineering. The successful candidate will play a pivotal role in conducting cutting-edge research in the new Enterprise Engineering and Optics Centre, collaborating with industry partners, publishing scholarly articles, and securing funding to advance the field of composite materials.

The Research Fellow position in Composite Materials Engineering demands a driven and seasoned individual to lead the development of research objectives and proposals, ensuring the delivery of measurable outcomes within specified timelines.

Drawing on extensive experience and expertise in composite materials engineering, the incumbent will employ robust project management skills to collaborate effectively with funding partners and the academic community, driving projects towards strategic objectives. Central to the role is the effective communication and engagement of all project partners, ensuring progress updates and fostering collaborative efforts to meet deadlines within the field of composite materials engineering.

Principal Accountabilities

This post requires a highly motivated experienced Research Fellow to develop research objectives and proposals, driving the project to deliver measurable outcomes within the required timeline. The post holder will utilise project management skills and experience to work alongside funding partners and the academic community in the delivery of the project's strategic objectives.

As part of the role, the post holder will be responsible for communication with and engagement of all involved in the project keeping them informed of progress, working collaboratively to achieve deadlines, scheduling and decision-making to ensure this happens. Networking in the academic and wider community to raise the profile of the research and increase the potential impact of the findings. They will lead the sharing of the learning across Wrexham University and with our external partners and communities.

Liaise with the Research Office and lead the collation of evidence need to support the submission of REF impact case studies for the department. Ensure that the impact of the research projects is assessed from case studies which document the underpinning research and the impact resulting from application and use of that research for the REF.

Key Tasks

Key tasks and Responsibilities of this post will be to:

- Act as a researcher leader at the University, develop reaserch objectves, projects and proposals, making decisions on research methodologies, often in collaboration with colleagues and sometimes subject to approval of the head of the research programme.
- Perform and lead high quality collaborative research, working both independantly and as part of the research team and wider academic communicty to achieve the project goals.
- Provide line management support for the RA/PDR colleagues within the project if applicable.
- Provide input, share skills and experience to direct the projectory of the project, mentoring RA/PDR colleagues in developing their research techniques and making inform decision to deliver the project goals.
- Assess, interpret and evaluate outcomes of research and communicate of research outcomes to a wide variety of audiences, including through public engagement, tailoring content, and style to a broad range of specialist and non-specialist audiences.
- Develop ideas for application or research outcomes.
- To produce research outputs. These outputs may be suitable for submission to the national Research Excellence Framework (REF).
- Identify sources of funding and assist with preparing bids and securing of funds for research.
- Participate in and develop external research links with other academic research teams whilst working with the wider Wrexham University research teams and faculty leads to develop the academic research.
- Attend and contribute to collaborative meetings to progress research projects.
- Working with the project Director/ Principal Investigator, investigate and pursue funding opportunities for collaborative research activities beyond the current project goals.
- Where appropriate, to support the delivery of education courses and workshops, relevant to the research project.
- To be an active member of the University's research community and have a role to play in developing and promoting a positive and inclusive research culture.
- The post holder will also be responsible for identifying and coordinating any additional requirements and assistance.

Special Features

There may be the requirement to travel to meetings and events and to collect data when required.

The ability to communicate in the medium of Welsh desirable.

General Duties

You will ensure that appropriate management systems and procedures are in place to meet your health and safety duties and responsibilities contained within the University's health and safety policy. In particular, you will ensure that appropriate risk assessments are carried out in respect of significant hazards and that safety inspections are undertaken on at least an annual cycle in each workplace under your control.

It is the responsibility of employees to apply the University's Equal Opportunities Policy in their own area of responsibility and in their general conduct.

All staff have a responsibility for promoting high levels of customer care within their own areas of responsibility.

Staff must be aware of the University's commitment to Sustainability.

All staff must promote healthy behaviour and positive mental health and wellbeing.

Post holders are expected to co-operate with the Professional Development Review (PDR) process, engaging in the setting of objectives to assist in the monitoring of performance and the development of the individual.

You will assess the training and development needs of each member of staff under your control to ensure they are adequately supported in relation to their work responsibilities.

Such other relevant duties commensurate with the grade of the post as may be assigned by the Manager in agreement with the post holder. Such agreement should not be unreasonably withheld.

The key responsibilities contained in this job description are indicative not exhaustive. Duties and responsibilities may be altered in discussion with the post holder.

The University is a signatory to the Researcher Development Concordat and Research Integrity Concordat. The post holder is expected to adhere and promote the requirements of this provision.

All post-holders within the Directorate are expected to be able to provide support across all areas, beyond their immediate team, as requested by the Director and commensurate with their skills, knowledge, and experience.

Review

This is a description of the job at the time of issue. It is the University's practice periodically to review and update job descriptions to ensure that they accurately reflect the current nature of the job and requirements of the University and to incorporate reasonable changes where required, in consultation with the job holder.

Person Specification

Prifysgol Wrecsam Wrexham University

Job Title: Research Fellow in Composite Materials Engineering

In order to be shortlisted you must demonstrate that you meet all the essential criteria and as many of the desirable criteria as possible. Where we have a large number of applications that meet all of the essential criteria, we will then use the desirable criteria to produce the shortlist.

Selection Criteria

	Attributes	Item	Relevant Criteria	Identification Method	Rank
1	Skills & Abilities	1.1	Flexibility and Knowledge to co-ordinate the work of colleagues to deliver a wide range of tasks, with an open, pro-active, creative, problem-solving, and supportive approach.	A,I	E
		1.2	Ability to assess, interpret and evaluate outcomes of research.	A,I	E
		1.3	Excellent writing, communication, and presentation skills, able to adopt an appropriate style for a range of specialist and non-specialist audiences.	A,I	E
		1.4	Strong interpersonal and team-working skills. Focused on engagement to deliver results.	A,I	E
2	General & Specialist Knowledge	2.1	Possess sufficient specialist knowledge to develop research programmes and methodologies.	A,I	E
		2.2	Collaborative lead member of a broader team, experience of working constructively with senior staff and supporting the work of less experienced staff or non-academic partners involved in projects to deliver project outcomes.	A,I	E
		2.3	Knowledge of adaptive approaches to tackle a wide range of tasks, with an open, pro-active, creative, and problem-solving approach.	A,I	E
3	Education & Training	3.1	PhD or equivalent in a related subject.	A,I	E
		3.2	Membership of relevant professional body commensurate with the level of this post.	A,I	E

4	Relevant Experience	4.1	Evidence of producing and supporting the delivery of quality research outputs.	A,I	E
		4.2	Evidenced experience of managing research projects and teams.	A,I	E
		4.3	Demonstrable understanding of good practice in research conduct (including in research ethics, research integrity and handling research data).	A,I	E
		4.4	Demonstrable ability to be a collaborative and lead member of a broader team, working constructively with senior staff and supporting the work of less experienced staff or students involved in projects.	A,I	E
		4.5	Evidenced experience of collaborative projects, preferably involving HE/industry collaborations in a relevant field.	A,I	E
		4.6	Provable experience in communicating conceptual ideas to a range of people.	A,I	E
5	Special Requirements	5.1	Ability to communicate in the medium of Welsh.	A,I	D
		5.2	Commitment to agile working and appropriate travel between sites where activities are scheduled.	A,I	E
Date of Revision					

Key	**Identification Method**	**A**	Application Form
		I	Interview
		T	Test
		C	Copy of Certificates
		P	Presentation
		G	Group Assessment
	Rank	**E**	Essential
		D	Desirable