

Masters in Research Opportunity

Céim mháistreachta trí thaighde

Project Title: Development of post primary educational courses in the field of marine renewable energy

Teideal: Forbairt ar chúrsaí oideachais don churaclam iar-bhunscoile san earnáil fuinneamh in-athnuaite mhuirí

Funding Agencies: Funding support has been secured from a combination of the Marine Institute, SEAI, Údarás na Gaeltachta and GMIT. SmartBay Ireland will act as coordinators for the project.

Description:

The project will focus on the preparation and delivery of specific bilingual education courses and resources at post primary level, which will incorporate various aspects of the marine and renewable energy knowledge base. The research will include an analysis of current post primary syllabi and specifications in order to identify particular aspects of the curriculum which could be enhanced through engagement with the National Marine and Renewable Energy Test Site at SmartBay Ireland.

It is anticipated that a multi-pronged approach will be developed with respect to engagement, with the aim of focusing on a number of teaching outputs. Examples might include a first-year taster course, a junior cycle short course and a Transition Year cross-curricular module, together with accompanying planning grids, lesson plans and multi-media teaching resources. The outputs will be designed based on the themes of renewable energy, marine science, data analysis, critical thinking and cross-curriculum collaboration. New educational materials will be developed for each course or module, through the medium of the Irish Language. The candidate will research and build upon current relevant educational sources relating to marine education and sustainability. The courses/modules that are developed will be delivered in a case study Gaeltacht school, in collaboration with staff and students, and with appropriate consents. Care will be taken to liaise with education experts to ensure that the developed materials enrich the current education programme while not contributing to curriculum overload. In year one of the research project courses and materials will be developed. In year two, a trial delivery will take place in a Gaelscoil (which is also a Gaeltacht School) local to the SmartBay Marine and Renewable energy test, with assistance from project partners/stakeholders. The effectiveness of the developed material will be evaluated and assessed for wider suitability and efficacy. Knowledge transfer workshops will be undertaken to provide training on the course materials to facilitators/teachers who will ensure the longevity of the programme beyond the scope of this particular project.

Cur Síos:

An aidhm atá leis an tionscadal ná cúrsaí oideachais don curaclam iar-bhunscoile a chruthú agus a chur ar fáil i mBéarla agus i nGaeilge atá dírithe ar an earnáil fuinneamh in-athnuaite mhuirí. Beidh anailís le déanamh ar ábhar an tsiollabais iar-bhunscoile reatha chun gnéithe áirithe a aithint a bheadh oiriúnach chun ceangal a dhéanamh leis agus gur féidir cur leis le comhoibriú leis an suíomh tástála mhuirí agus fuinneamh in-athnuaite, SmartBay.

Tá súil le cur chuige ilghnéitheach le aschur múinteoireachta. Samplaí de aschur múinteoireachta ná cúrsa gearr sa chéad bhliain, cúrsa gearr eile sa tsraith shóisearach agus modúl traschuraclaim san idirbhliain, i dteannta áiseanna teagasc cosúil le teimpléad pleanála, pleanála ceachtanna agus acmhainní ilmheánach. Beidh dearadh na gceachtanna bunaithe ar na téamaí fuinneamh in-athnuaite, eolaíocht mhuirí, anailísiú sonraí, smaointeoireacht chriticiúil agus comhoibriú traschuraclaim. Déanfaidh an t-iarrthóir taighde ar fhoinsí oideachais reatha a bhaineann le oideachas muirí agus inbhuanaitheachta. Beidh na cúrsaí/modúil á dtástáil i scoil Ghaeltachta, i gcomhair leis na múinteoirí agus na mic léinn. Sa chéad bhliain den tionscadal taighde déanfaidh an t-iarrthóir forbairt ar na ceachtanna. Sa dara bliain, déanfaidh an t-iarrthóir trialacha i scoil Ghaeltachta in aice leis an suíomh tástála mhuirí agus fuinneamh in-athnuaite SmartBay, le cúnaimh ó pháirtithe. Déanfar measúnú ar éifeachtacht agus oiriúnacht an ábhair. Cuirfear ceardlanna ar bun chun traenáil a chur ar fáil d'éascaitheoirí/múinteoirí chun fad saoil an chúrsa a chinntiú lasmuigh de scóip an tionscadail.

Requirements/Qualifications:

- An Honours Degree (minimum 2:2, but 2:1 or higher is desirable) in the field of science
- An experienced post primary educator, preferably in the field of science
- A good knowledge of the junior cycle and transition year prog at post primary level
- Demonstratable proficiency and fluency in the Irish Language (oral and written) to equivalent of B1 standard and ideally be a native speaker
- Good organisational and management skills.
- Ability to work as part of a team.
- Good interpersonal, oral and written communication skills in the Irish and English languages.

Desirable:

- A Higher Dipoma in Education (H. Dip. in Ed.) or a Professional Master of Education (PME) or a concurrent degree with science and education.
- Experience of contributing towards citizen science initiatives, community development workshops and/or CPD training.
- A home address in the Connemara Gaeltacht Region.
- Full clean driver's license

Project Duration: 24 months

Conditions:

- €1,250 stipend per month.
- Postgraduate fees for EU students will be covered by the project.
- In addition, travel and subsistence, and material costs incurred during the project will be covered up to the value of €3,000.

Please Note: Candidates from outside the EU are eligible to apply but may be expected to provide evidence of sources of additional funds to cover excesses associated with non-EU fees.

If either English or Irish is not the applicant's first language, a certificate of language ability in both languages is required. IELTS level 6.0 or equivalent is mandatory for those presenting with English as a foreign language

Project Start-Date: November 2020

Application Deadline: Wednesday 16th September 2020 at 12 noon

Interviews are expected to take place the week commencing 28th September 2020.

Applicants should submit their:

- *Curriculum vitae* (to include 2 referees),
- a copy of transcript of results, and,
- a one-page Personal Statement to: ResearchOffice@gmit.ie

NB: Applications must be submitted to the Research Office e-mail address only. Please ensure all documents are emailed as a single Word or PDF file.

The Personal Statement should not exceed 1 page and should explain:

- How you meet the requirements of the position; and,
- Why you would like to pursue this Masters research programme.

For further information, please email both Dr Pauline Logue (Pauline.Logue@gmit.ie) and Dr Roisín Nash (Roisin.Nash@gmit.ie).

Data Protection Statement

GMIT takes very seriously its legal obligations as set out in the General Data Protection Regulation 2016/679 (GDPR) and the Irish Data Protection Act 2018 to safeguard and protect your personal information in our possession. The personal information which you disclose to us in this form will only be used to assess your suitability; administer and register you for this scholarship. We will not keep your personal information for any longer than is necessary for those stated purposes. **For more details, please refer to GMIT's Student Privacy Statement:** <http://www.gmit.ie/general/student-privacy-statement>