



Request a Fulbright Senior Specialist Application for Potential Host Institutions

<http://www.iie.org/cies/specialists/>

This form is for the use of academic institutions that wish to request a Fulbright Senior Specialist through their local Fulbright Commission or U.S. Embassy.

Return the completed form to your local Fulbright Commission or U.S. Embassy at:

Name Irish – US Fulbright Commission

Address Brooklawn House, Shelbourne Road, Dublin 4,
Ireland

Telephone +353 (0)1 6607670

E-Mail carmel.coyle@fulbright.ie

Fax +353 (0)1 6607668

Instructions to potential host institutions. The recruitment effort for your program request can be most effective if:

1. Careful attention is given to the *Program Description* and the *Purpose of the Program* to ensure adequate detail in describing the scope of work
2. Adequate lead time is given for recruitment of specialists who best fit the program request
3. Flexibility in the timeframe of the proposed project is allowed for in order to accommodate the various schedules of potential Fulbright Senior Specialist candidates

PROGRAM INFORMATION

Field Requested

(Choose only one primary fields. For U.S. Studies, please also specify one sub-field)

Primary Fields

- Anthropology
- Archaeology
- Business Administration
- Communications / Journalism
- Economics
- Education
- Environmental Science
- Information Technology
- Law
- Library Science
- Political Science
- Public Administration
- Sociology
- Social Work
- U.S. Studies **(please specify sub-field)**

Sub-fields

- Art
- Art History
- Dance
- History
- Literature
- Music
- Popular Culture
- Theater
- _ Urban Planning

Specialization desired within the field requested:

Coastal and Marine Geographic Information Systems (GIS)

Type of Activity Requested
(Check all that apply)

- Present lectures at graduate and undergraduate levels
- Participate in or lead seminars or workshops at overseas academic institutions
- Conduct needs assessments, surveys, institutional or programmatic research
- Take part in specialized academic programs and conferences
- Consult with administrators & instructors of post-secondary institutions on faculty development
- Develop and/or assess academic curricula or educational materials
- Conduct teacher-training programs at the tertiary level
- Other (please describe): _____

Name of Institution Hosting the Award:

Coastal and Marine Resources Centre, University College Cork

Street Address:

CMRC, UCC, Naval Base, Haulbowline

City:

Cobh, County Cork

Country:

Ireland

Zip / Postal Code:

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Contact Person:

Liz O'Dea

Contact Title

GIS Specialist

Telephone Number:

+353 (0)21 4703106

Fax Number:

+353 (0)21 4703132

E-mail Address:

l.odea@ucc.ie

Web Address:

http://cmrc.ucc.ie/

Can the host institution cover the lodging, meals and in-country travel of the Fulbrighter? (yes / no)

Yes

Program Description: (In order to provide the best possible matches of specialists with program requests, please be very specific as to the type of and scope of work that the specialist would engage in.) Attach additional sheet if necessary.

Overall the program will consist of:

- A public lecture at UCC that broadly discusses current trends in marine and coastal GIS and seabed mapping efforts in the United States.
- Conduction of two half-day seminars (one in Dublin and one in Galway or Cork) open to the Irish marine GIS community, including members of the Marine Institute, Geological Survey of Ireland, NUI Galway's Martin Ryan Institute, and University of Ulster Coleraine, among others. The seminar will be an informational session on international marine data standards and the ArcGIS Marine Data Model, which is an international effort that Dr. Wright has headed up to develop a streamlined approach to collecting and handling complex multidimensional marine spatial data.
- Several smaller and more technical presentations that will inform UCC researchers, academic staff, and graduate students of current projects with which Dr. Wright is involved in the United States. These will focus on the areas of seabed mapping technology; Geographic Information Systems (GIS) and web mapping technologies in the marine and coastal realm; marine and coastal data inventories; and the ArcGIS Marine Data Model.
- Providing consultation for CMRC researchers on current projects that would benefit from her expertise through review and discussion, as well as provide insight for potential future CMRC projects.
- Liaising with UCC Department of Geography staff and graduate students to discuss relevant projects.

Purpose of the Program: (Please describe the program objectives and provide background on the issues and institutions involved.) Attach additional sheet if necessary.

The Coastal and Marine Resources Centre (CMRC), established in 1994, consists of a multidisciplinary group within University College Cork (UCC) and carries a strong tradition in academic research, education, training, and consultancy. Its 19 researchers have expertise in a variety of disciplines that help to facilitate understanding of the complex coastal environment. The centre is currently working on 21 local, national, and European projects in the areas of GIS, remote sensing, modeling, and internet technologies; coastal processes and seabed mapping; integrated coastal and marine area management; and marine mammals and seabirds.

Dr. Wright is a professor in the department of Geosciences as well as in the College of Oceanic and Atmospheric Sciences at Oregon State University. She is regarded very highly in the marine and coastal GIS community worldwide. Her research expertise includes application and analytical issues in GIS for oceanographic data; processing, production, visualization, and interpretation of seafloor maps; marine data

modeling and computational infrastructures for deep ocean data management and analysis; and web-based GIS mapping. Among her publications are books entitled *Undersea with GIS* (2002), and *Marine and Coastal Geographical Information Systems* (1999).

The primary purpose of the proposed program is for the CMRC to benefit from the expertise and experience of Dr. Wright in the areas for which she is famous in the marine and coastal GIS community. Dr. Wright and the CMRC are both involved with projects in the areas of marine and coastal mapping technologies such as Geographic Information Systems (GIS), web mapping, and seabed mapping, and both would benefit greatly from the opportunity to share their knowledge and experience working in different parts of the world. The following list provides examples of projects that the CMRC and Dr. Wright have in common.

- The CMRC is developing a web-based coastal atlas of Ireland called the Marine Irish Digital Atlas (MIDA: <http://mida.ucc.ie/>). The atlas is based on web GIS technology, and will serve as a catalog of existing GIS data related to Ireland's coastal and marine areas, as well as an informational tool for the general public. The CMRC is also designing the web-based GIS component for the Data Integration System for Marine Pollution and Water Quality (DISMAR) project, in which data will be distributed among computers located across Europe to aid in oil spill disaster response within Europe. In the U.S., Dr. Wright is helping to develop an Oregon Coastal Atlas (<http://www.coastalatlantlas.net/>) using similar web-based GIS technology, and has experience with distributed services such as the DISMAR project. Oregon State University also has created the online Catalogue of Oregon Marine and Coastal Information (<http://ocid.nacse.org/research/comci/>), which shares similarities with the MIDA project. All of these projects would benefit from sharing their experiences.
- Dr. Wright has helped to generate the ArcGIS Marine Data Model as mentioned above, which involved working with world leaders in GIS technology to develop an international standard for working with marine spatial data. This data standard is one from which the CMRC and other agencies in Ireland would greatly benefit, particularly because of the increased sharing of data internationally.
- Some of the CMRC's current and past seabed mapping projects include the Atlantic Coral Ecosystem Study (ACES), Environmental Controls on Mound Formation along the European Margin (ECOMOUND), and TOBI Porcupine and Rockall Margin Study projects, all of which use sidescan sonar techniques and core sampling to study deepwater coral mounds; and Reconnaissance Assessment of Coastal Seabed Sand and Gravel Resources, consisting of seabed surveys, mapping, and analysis of Irish sand and gravel resources. Dr. Wright's experience in seabed mapping includes developing a map series and online data archive showing the bathymetry of the Tonga Trench and Forearc between Fiji and American Samoa; Fagatele Bay National Marine Sanctuary exploration, mapping, and formation of a GIS Data Archive; and benthic habitat mapping in American Samoa and Oregon. The CMRC would benefit greatly from discussing various techniques that Dr. Wright has used in comparison to their own, and as a result of discussion, would develop new research project ideas.

Dr. Wright's visit will be a productive step in encouraging international collaboration. Her extensive experience mapping the Pacific Ocean will provide insight into Ireland's efforts in the Atlantic Ocean, and it is expected that both sides will learn a lot from each other.

Length of Grant: *(Grant length may be from 2-6 weeks.)*

two weeks

Proposed Starting Date:
(Please advise the date and time of the program in local time.)

July 20, 2004

Preferred Arrival Date:

July 17, 2004

Number of Program Days Requested:

10

If a serial grant is requested, describe desired intervals, number of visits and length of each visit:

N/A

Flexibility of Timeframe. *Providing flexibility in the timeframe of the requested project may result in a broader pool of*

Flexible, but should be between June and September 2004

of the requested project may result in a broader pool of candidates from which to choose. Please describe the extent (in days or months) of the host institution's flexibility.

SPECIALIST INFORMATION

Type of Specialist Required (check one)

Academic Professional Either

QUALIFICATIONS PREFERRED

Please complete all of the following information:

Degree:

PhD

Minimum years of teaching experience:

5 years

Academic rank preferred:

Professor

Language requirements:

English

Audience(s) (One way of determining the level of grantee expertise needed for a program is to know with whom he/she will be working. If the name of the audience doesn't make clear their level of sophistication, please elaborate).

University Researchers specialising in Geographic Information Systems (GIS), and seabed and coastal mapping, Irish marine and coastal mapping community.

Other:

If this is a request for a specific individual (Name Request), please provide as much of the following as possible: Note: Host institutions may list specific individuals in whom the institution is particularly interested and may invite such candidates to apply with the understanding that the invitation does not constitute a commitment or a preference in final consideration.

Name of Person Requested (Note: The requested individual must be a U.S. citizen):

Dr. Dawn Wright

Title of Person Requested:

Professor

Institution:

Oregon State University

Department (if applicable):

Geosciences

Address:

104 Wilkinson Hall, OSU, Corvallis, OR 97331-5506, USA

Telephone Number(s):

+01 541 737-1229

Fax Number(s):

+01 541 737-1200

E-mail Address(es):

dawn@dusk.geo.orst.edu

Provide a brief justification for requesting this person:

Dr. Wright has extensive experience in using GIS for marine mapping, and is world renown for her expertise and enthusiasm in the subject. Our Centre would benefit greatly from the opportunity to share her knowledge.

FOR OFFICE USE ONLY:

Action Taken by Fulbright Commission/Public Affairs Section of U.S. Embassy:

Note to Fulbright Commissions/Public Affairs Sections: THIS FORM HAS BEEN CREATED TO FACILITATE THE RECEIPT OF PROGRAM REQUESTS FROM POTENTIAL HOST INSTITUTIONS. IT IS NOT MEANT TO REPLACE THE OFFICIAL CALL FOR APPOINTMENT FORM WHICH IS NECESSARY FOR PROCEEDING WITH THE PROCESSING OF THE REQUEST. THIS FORM IS FOR PA SECTION/COMMISSION RECORDS ONLY--PLEASE DO NOT FORWARD THIS FORM TO ECA OR CIES.