Career Development Plan ESR 14

Name of fellow: Selina Ali

Department: Archaeology, History and Anthropology, University of Wales, Trinity Saint David

Name of Supervisor: Professor Nigel Nayling

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BRIEF OVERVIEW OF RESEARCH PROJECT AND MAJOR ACCOMPLISHMENTS EXPECTED (half page should be sufficient):

Research Project: Digital data compilation and accessible archives: Developing models for sustainable research data.

This research forms a part of the Forseadiscovery project, a larger European project that made up of both early stage researchers and experienced researchers who are united in a goal to research the history and archaeology of Iberian trade networks, shipbuilding, wood biology, forestry management, and dendro-archaeology.

The aim of this particular fellowship is to design, create, and submit a digital archive of the project. In order to do this a workflow must be established to produce an archive design and deposition plan that is acceptable and clearly laid out for all of the research members involved in this project. The archive design will be made in compliance of a Historic Environmental Data Archive centre (DAC), such as the Marine Environmental Data and Information Network (MEDIN) and the Archaeology Data Service (ADS).

A methodology will be created once key information is identified through discussions with the researchers working throughout the project. The result of these discussions should include selecting and formatting digital datasets and the creation of useful metadata that will be included with all the datasets, complete with agreed upon filenames and formats, ultimately leading to a final archival creation and deposition. This project will also examine dynamic ways of public engagement with digital data, data access, and effective publications using DACs and associated publishers (e.g. internet archaeology). It also hopes to lay the foundation for a methodology for future projects and help in the long term goal to create sustainable data repositories that are easily searchable and accessible.

The major outcome by the end of this fellowship will be a completed archive published with an acceptable DAC, which is comprised of datasets from across the Forseadiscovery project. An easy to follow methodology will also be created that could act as a template for future research projects, and a greater awareness of the possibilities of publishing digital datasets through alternative online formats for greater public engagement. The planned dissemination of this archive will be done through presentations at international conferences, articles in international journals, and lectures to non-specialised audiences.

LONG-TERM CAREER OBJECTIVES (over 5 years):

Goals: Upon finishing this fellowship, return to the commercial archaeology sector in either northern Europe or North America and continue research into implementing dynamic ways of digitally recording and publishing archaeological data.

What further research activity or other training is needed to attain these goals? A greater, multi-disciplinary understanding of historical and dendrochronological datasets, and experience with online data repository centres. More experience and training with different databasing softwares that are available.

SHORT-TERM OBJECTIVES (1-2 years):

1. Research results:
   - Design, create, and implement a DAC compliant archive for the Forseadiscovery project.
   - Publication of methodology and discussions for the archive in relevant international journals.

2. Research Skills and techniques:

   - Improve computing skills to be able to effectively and efficiently post process datasets
   - Gain more experience with various 3D programs such as Maya and Blender with the aim to create models that can be readily understood by the general, non-specialised public.
   - Obtain greater training in 3D photogrammetry, both on land and underwater.
   - To gain more experience within the commercial archaeological sector through fieldwork in various types of conditions, i.e. intertidal, foreshore work, and underwater diving operations.

3. Communication skills:

   - Present work and research at both national and international conferences
   - Give lectures to groups of specialised and non- specialised audiences through seminars and lectures at the University.

4. Research management: -Fellowship or other funding applications planned (indicate name of award if known; include fellowships with entire funding periods, grants written/applied for/received, professional society presentation awards or travel awards, etc.)

5. Other professional training (course work, teaching activity):

6. Anticipated networking opportunities:

   - IKUWA IV in Australia Nov.-Dec. 2016

7. Other activities (community, etc) with professional relevance: